NATIONAL MUSEUM OF VICTORIA
L. Pescott.

Vol. XXIII. Part 9.

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The Journal of the Department of Agriculture of Victoria, Australia.

Sept., 1925.

PRINCIPAL CONTENTS

Standard Herd Test—Annual Report

List of Cows Tested (in order of merit)

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THE JOURNAL

OF

THE DEPARTMENT OF AGRICULTURE,

VICTORIA, AUSTRALIA.

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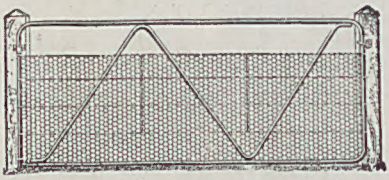

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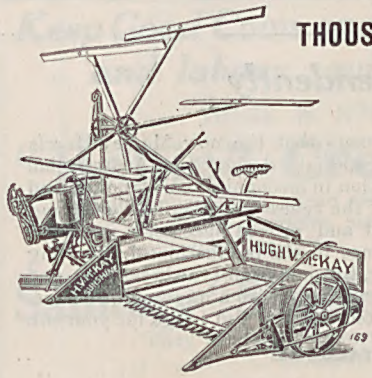

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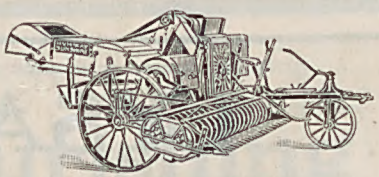

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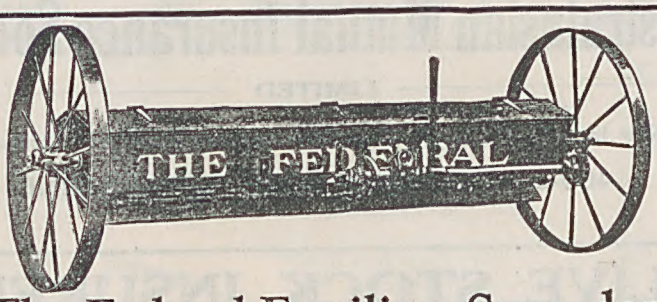

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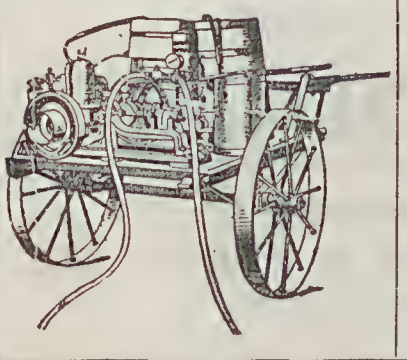

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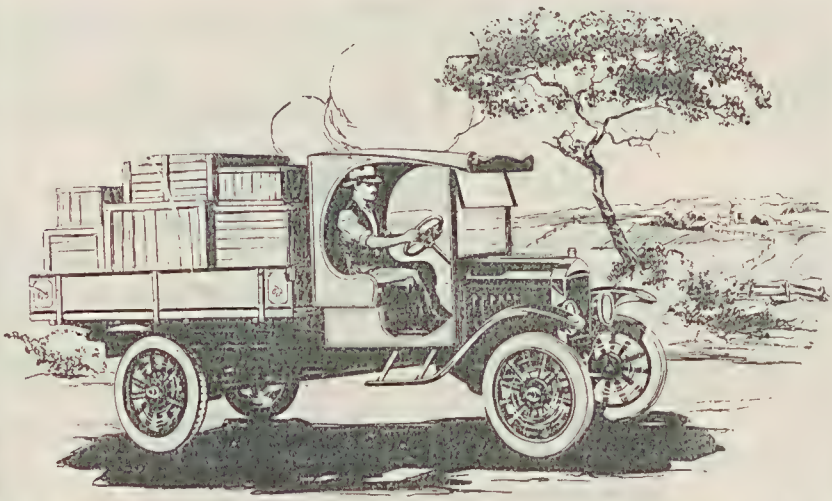

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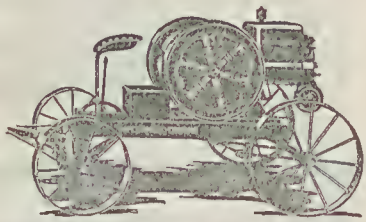

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COWS may be looked upon as machines for converting fodder into milk. The body is composed of a mass of cells which are continually being worn out, and which have to be renewed from certain ingredients of the food. Milk is manufactured by first building up the cell system of the udder from the flesh-forming ingredients of the food, and then converting these into milk.

A mixture of grasses and clovers is the best food for milk production. A cow, when in full milk, requires about one-tenth of the weight of her own body per day, *i.e.*, a cow 1,000 lbs. live weight requires 100 lbs. of grass and clover, or its equivalent in other food, per day. When the clovers are in bloom and before the grass seeds ripen a cow's grazing is practically a balanced ration, *i.e.*, it consists of about 75 per cent. water and 25 per cent. dry matter.

The dry matter consists of 10 lbs. indigestible and 15 lbs. digestible or soluble parts, the latter being dissolved by the digestive juices secreted by the glands and cells of the stomach, absorbed into the blood stream and conveyed to the different parts of the body to be used by the various cells for their nourishment and reproduction. The soluble matter consists of 12 lbs. carbo-hydrates, 2½ lbs. protein, and ½ lb. fat. This represents a balanced ration, *i.e.*, the different ingredients are in the proportions that can be made use of by the cow.

Carbo-hydrates, so called because they consist of carbon and water, and represented in the food by sugar, starch, and gum, are heat and other energy-producing foods. Fat or oil is used for the same purpose, but a given weight is worth two and a half times that of carbo-hydrates. Fibre gives bulk to the food, and by pressure in the stomach causes the muscular

activity which mixes the digestive juices with the food. Protein is the most important part of the food, and in addition to carbon and water, it contains nitrogen, phosphorus, sulphur, lime, &c., from which the whole of the cell system of the body is built up and replenished and enables milk to be produced. The secret of the production of milk is to provide food containing sufficient protein.

Balancing the ration means mixing the foods so as to provide the different ingredients in the correct proportions. For instance, 100 lbs. of green lucerne contains 1¼ lbs. more protein than a cow can make use of, but 164 lbs. would be required to yield 12 lbs. of carbo-hydrates, and this would increase the loss of protein to 3½ lbs. Again, with maize containing 1 per cent. protein, a cow would require 250 lbs. to get the required amount of protein, but 100 lbs. of green maize contains the right amount of carbo-hydrates. Consequently, if 250 lbs. are eaten, 17½ lbs. carbo-hydrates go to waste; or, in other words, for every ton of maize used 1½ cwt. are wasted, passing through the system unused.

As it is a physical impossibility for a cow to eat much more than 100 lbs. of green maize a day, she cannot, if fed on maize alone, eat enough to provide her with the requisite amount of protein to keep up her milk flow. On lucerne she would give her full milk supply, but at an extravagant cost; but mixing the two balances the ration and enables her to make full use of both.

The quantities specified above hold with the average cow giving an average amount of milk, but they should be varied to suit circumstances. The average composition of milk is as follows:—

Per cent. Fat.	Per cent. Protein.	Per cent. Carbo-hydrates.
3	2·8	4·5
4	3·2	4·9
5	3·6	5·0
6	4·0	4·9

It will be seen that as milk increases in butter fat it increases in protein, that it increases in carbo-hydrates up to 5 per cent. fat, and then there is a slight decrease in milk testing higher than 5 per cent. fat.

A cow giving a greater amount of rich milk will require an increased amount of protein, &c., from which to manufacture that milk. Careful investigation extending over many years has given the necessary data on which to work. It is found that for maintenance, *i.e.*, for heat, energy, renewal of waste of tissue, &c., the cow requires for every 100 lbs. live weight, ·07 lb. protein, ·7 lb. carbo-hydrates, ·01 lb. fat. So a 1,000-lb. cow requires ·7 lb. protein, 7·0 lbs. carbo-hydrates, ·1 lb. fat. Then for each pound of milk of a given per cent. of fat the following nutrients are required :—

For Milk Testing.	Protein.	Carbo-hydrates.	Fat.
	lbs.	lbs.	lbs.
3·0 per cent. of fat ..	·042	·19	·013
3·5 „ „ ..	·045	·21	·015
4·0 „ „ ..	·048	·23	·016
4·5 „ „ ..	·051	·25	·018
5·0 „ „ ..	·054	·27	·019
5·5 „ „ ..	·057	·29	·020
6·0 „ „ ..	·06	·31	·022

Therefore a cow giving 30 lbs. of 4 per cent. milk per day would require for milk-producing purposes thirty times the nutrients specified in the third line of the above table, or—

	Protein.	Carbo-hydrates.	Fat.
	14·4 ..	6·9 ..	·48
For maintenance she would require	·7 ..	7·0 ..	·1
A total of	2·14 lbs.	13·9 lbs. ..	·58 lbs

A cow giving 50 lbs. of 5 per cent. milk per day would require for milk producing—

	Protein.	Carbo-hydrates.	Fat.
	2·7 ..	13·5 ..	·95
For maintenance	·7 ..	7·0 ..	·10
A total of	3·4 lbs.	20·5 lbs. ..	1·05 lbs.

Balancing the Ration.

To make up a balanced ration proceed as follows :—Suppose a cow weighs 1,200 lbs. and gives 40 lbs. of 5 per cent. milk. Table shows that for

maintenance she would require for each 100 lbs. live weight ·07 lb. protein, ·7 lb. carbo-hydrates, and ·01 lb. of fat; these figures multiplied by 12 give the required amount for maintenance, viz., ·84 lb. protein, 8·4 lbs. carbo-hydrates, ·12 lbs. fat, and for each pound of milk testing 5 per cent. of fat, ·054 lb. protein, ·27 lb. carbo-hydrates, ·019 lb. fat. Multiply these figures by 50 and the required amount of nutrients for milk production is shown, viz.:—

	Protein.	Carbo-hydrates.	Fat.
Total for milk	2·7 lbs. ..	13·5 lbs. ..	·95 lbs.
Total for maintenance ..	·84 „ ..	8·4 „ ..	·12 „
Total required	3·54 „ ..	21·9 „ ..	1·07 „

Table showing Component Parts of various Feeds.

Feed.	Protein.	Carbo-hydrates.	Fat.
Oat hay chaff, 20 lbs. ..	·900	8·74	·30
Linseed meal, 2 lbs. ..	·522	·77	·13
Wheat bran, 6 lbs... ..	·672	2·53	·15
Polly feed, 3 lbs.	·420	1·56	·06
Crushed wheat, 4 lbs. ..	·548	1·90	·056
Maize silage, 30 lbs. ..	·540	4·05	·18
	3·602	19·55	·87

These rations allow plenty of protein but are somewhat deficient in carbo-hydrates.

Then take a cow grazing on green oats.

	Protein.	Carbo-hydrates.	Fat.
110 lbs. gives	2·86 lbs. ..	21·79 lbs. ..	1·10 lbs.
Add 5 lbs. lucerne hay chaff	·61 „ ..	1·85 „ ..	·08 „
	3·47 „ ..	23·66 „ ..	1·18 „

If she is grazing on grass she would require the addition of a few pounds of food rich in protein to enable her to keep up the big flow of rich milk.

In the above ration it will be noticed that the roughage, *i.e.*, oaten hay chaff contains practically sufficient of the various nutrients for maintenance, and therefore the concentrates are required for milk production. To

save the trouble of working out the rations it has been found satisfactory in practice to allow 1 lb. of mixed concentrates to every 3 lbs. of milk a cow is giving in case of rich milk and 1 lb. to every 4 lbs. for average milk, in addition to as much roughage as she will eat. The allowance of linseed meal should never exceed 3 lbs. daily.

Comparative Values of Stock Foods.

The following method of estimating the comparative values of stock foods is approved by leading authorities on the subject. It is estimated on the unit value, which is calculated as under :—

It is not advisable to compare roughages with concentrates on a food unit basis.

Percentage of protein plus fat multiplied by 2½ plus carbo-hydrates divided into market price.

Example—

LINSEED CAKE (MEGGITT'S MEAL, ETC.).

Protein ..	26·1%	=32·6 × 2½	= 81·5
Fat ..	6·5%		
C.H. ..	38·5%	.. ..	38·5
			120·0 food units £21 = 3s. 6d. per unit.

BRAN.

Protein ..	11·2%	=13·7 × 2½	= 34·25
Fat ..	2·5%		
C.H. ..	42·2%	.. ..	42·2
			76·45 food units £8 10s. = 2s. 2½d. per unit.

OATEN HAY.

Protein ..	4·5%	=6·0 × 2½	= 15·0
Fat ..	1·5%		
C.H. ..	43·7%	.. ..	43·7
			58·7 food units £5 = 1s. 8½d. per unit.

LUCERNE HAY.

Protein ..	12·3%	=13·9 × 2½	= 34·75
Fat ..	1·6%		
C.H. ..	37·1%	.. ..	37·1
			71·85 food units £5 = 1s. 4½d. per unit.

Comparative Value of Foods.

GRAIN.

	Digestible Nutrients.			Food Units.	Worth when Bran is £8 10s. per ton.
	Protein.	Fat.	Carbo-hydrates.		
	per cent.	per cent.	per cent.		per bushel. £ s. d.
Peas	19·4	1·0	49·9	101·0	0 6 0
Beans	22·1	1·2	44·1	102·3	0 6 0
Wheat	13·7	1·4	47·6	85·3	0 5 0
Barley	9·6	2·1	63·5	92·7	0 4 6
Maize	7·8	4·3	66·7	96 9	0 5 6
Oats	9·2	4·2	47·3	80·8	0 3 2
Millet	8·0	3·1	45·8	73·5	0 4 5
Rye	9·6	1·1	63·9	90·6	0 5 3
					per lb.
Linseed	19·4	34·7	18·0	155·2	0 0 2

PRODUCTS.

	Digestible Nutrients.			Food Units.	Worth when Bran is £8 10s. per ton.
	Protein.	Fat.	Carbo-hydrates.		
	per cent.	per cent.	per cent.		per 2,000 lbs.
Bran	11·2	2·5	42·2	76·4	8 10 0
Pollard	12·2	3·8	53·4	93·4	10 7 0
					per 2,240 lbs.
Linseed cake	26·1	6·5	38·5	120·0	15 0 0
Coconut oil cake ..	16·4	9·1	42·2	106·0	13 3 0
Dried blood	52·3	2·5	0·0	137·0	17 0 0
Maize oil meal ..	18·7	20·9	27·1	126·0	15 12 0
Polly feed	14·0	2·0	52·0	92·0	11 7 0
Mollerne	11·3	2·9	47·0	82·0	10 9 0
Corn and cob meal ..	8·4	2·0	70·2	96·2	10 18 0
Malt combings ..	14·9	7·9	51·8	109·0	13 10 0
Oat branning	9·6	5·5	54·1	91·8	11 7 0
Rice meal	11·8	13·3	48·4	111·1	13 15 0
Oat hulls	1·6	0·6	49·4	55·0	6 16 0
Molasses	..	..	62·0	62·0	7 13 0
Pea refuse	17·4	1·5	53·1	100·3	2 9 0
Cocoa husk meal ..	0·6	5·2	22·3	36·8	4 10 0
Brewers' grains, wet ..	3·9	1·4	9·3	22·5	2 16 0
Brewers' grains, dry ..	20·0	5·7	38·0	102·2	12 13 0

GREEN FODDER.

	Digestible Nutrients.			Food Units.	Value per ton.
	Protein.	Fat.	Carbo-hydrates.		
	per cent.	per cent.	per cent.		£ s. d.
Barley	1·9	0·4	10·2	15·9	1 19 0
Cocksfoot grass ..	1·5	0·5	11·4	16·4	2 0 0
Clover (red)	2·9	0·7	14·8	23·8	2 17 0
Lucerne	3·7	0·6	7·3	18·0	2 4 0
Maize	1·0	0·4	11·6	15·1	1 17 0
Oats	2·6	1·0	18·9	27·9	3 8 0
Rye	2·1	0·4	14·1	20·3	2 9 0
Sorghum	0·6	0·4	12·2	14·7	1 15 0
Vetch	3·9	0·5	7·3	18·3	2 4 0
Rape	1·0	0·2	7·2	10·2	1 3 0
ROOTS.					
Mangels	1·1	0·1	5·4	8·4	1 0 0
Maize silage	1·8	0·6	13·5	19·5	2 7 0
Pumpkins	1·0	0·3	5·8	9·0	1 1 0
Sugar beet	0·9	..	20·3	22·6	2 16 0
Beet slices	0·3	..	4·0	4·75	0 12 0
Swedes	1·0	0·2	7·2	10·2	1 4 0
Cabbage	1·8	0·4	8·2	13·7	1 13 0
Carrots	0·8	0·2	7·8	10·5	1 5 0
Potatoes	0·9	0·1	16·3	18·8	2 5 0

HAY.

	Digestible Nutrients.			Food Units.	Value per ton when Oaten Hay is £4 6s.
	Protein.	Fat.	Carbo-hydrates.		
	per cent.	per cent.	per cent.		£ s. d.
Oaten	4·5	1·5	43·7	58·7	..
Lucerne	12·3	1·6	37·0	72·0	5 5 0
Wheaten	3·5	1·2	34·2	45·9	3 7 0
Grass (good)	6·1	1·2	37·8	56·0	4 2 0
Vetch	12·9	1·4	37·5	73·2	5 6 0
Clover	6·8	1·7	35·8	57·0	4 3 0
STRAW.					
Oat	1·2	0·8	38·6	43·6	3 3 0
Barley	0·7	0·6	41·2	44·4	3 4 0
Wheat	0·4	0·4	36·3	38·3	2 14 0
Pea	4·3	0·8	32·3	45·0	3 5 0

Place this leaflet in pocket-book for future reference.

Department of Agriculture,

VICTORIA, AUSTRALIA.

PIG PRODUCTS

By Authority:
H. J. Green, Govt. Printer,
Melbourne.

12995.

A Pig weighing 153 lb. produces 108 lb. Finished Bacon

As follows:—

Bones	-	4¾ lb.
Backbone	-	1¾ ,,
Fillets	-	1½ ,,
Cuttings	-	1½ ,,
Kidneys	-	½ ,,
Flare Lards	-	5½ ,,
Fat	-	1½ ,,
Feet	-	3 ,,
Blade Bones	-	½ ,,
Head	-	9¾ ,,
Tongue	-	1½ ,,

Two Sides—121 lb.

Day after Killing—going into Salt—120 lb.

Cured (twenty-one days old)—115 lb.

Smoked (twenty-eight days old)—108 lb.

(Extract from "Douglas's Encyclopaedia.")

Place this leaflet in pocket-book for future reference.

Department of Agriculture,
SCIENCE BRANCH,
605 Flinders Street, Melbourne.

PROTECT YOUR CROPS

BY AUTHORITY:
H. J. Green, Government Printer,
Melbourne.

A.627/8.25.—12996.

Protect Your Crop.

CROP PROTECTION MEANS CROP PRODUCTION.

VICTORIA loses over two million pounds sterling per annum (£2,000,000) through the depredations of insect and fungus pests. The greater portion of this loss can be prevented. We cannot afford to lose the smallest portion of our grain and food crops during this critical period, when every penny is wanted to build up our finances and industries.

The Department of Agriculture is making every effort to minimize, as far as possible, the losses caused by insects, fungi, weeds, impure seeds, &c.

CROP PROTECTION MUST GO HAND IN HAND WITH CROP PRODUCTION.

Pests are not usually noticed or reported upon until considerable damage has been done. Therefore it is urged that the closest watch be kept on all crops for the first appearance of any pest or disease damaging the crop. It is much easier to check an outbreak in its incipient stage. If the pest or method of control is unknown, specimens should at once be sent to the **Science Branch,** Department of Agriculture, Produce Offices, Flinders Street.

Do not delay reporting outbreaks of fungus diseases or of insect infestations, as delay may involve serious losses that could otherwise be prevented.

Clean Farming, the Securing of Vigorous Growth in Young Plants, and Good Cultivation are the Best Protection Against all Pests and Diseases.

Plants are like animals—the more vigorous they are the less they are subject to disease and insect attacks.

Keep all crops constantly under supervision for the first appearance of any damage, in order that it may be checked without delay.

The estimated average yearly losses caused by insects, fungi, &c., in the State of Victoria, are:—

Cereals - -	£1,400,000
Root Crops -	200,000
Orchards and Vines	200,000
Miscellaneous Crops	500,000

Over 80% of these losses can be prevented by clean farming and good cultivation together with the use of sprays, pickles, poison baits, &c.

Full particulars as to formulae, time, mode of application, and other instructions may be had on application to the Departmental Officers at the Science Branch, 605-607 Flinders St., Melbourne.

NATIONAL MUSEUM OF VICTORIA

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STANDARD HERD TEST, 1924-25.

Conducted by the Department of Agriculture.

THIRTEENTH ANNUAL REPORT.

By J. M. Kerr, Herd Registrar.

Is the Present Position of the Industry Satisfactory?

One would like to claim at the outset of a report like this, that the industry of dairy-farming, which the Standard Herd Test was instituted thirteen years ago to benefit, had at last been brought into the prosperous position one might expect it to occupy in such a naturally suitable country as Victoria.

Truth does not permit of such a claim. Experience on the Better Farming Train, during its several tours, was sufficient to teach one that the industry will need to be much more remunerative to the man of average capacity, if it is to attract to itself the multitude that should be engaged in it. The same experience also proved that, in considering the potential earnings of the occupation, no phase of the matter is worrying the dairy farmer as much to-day, as what he calls the "low" price of the product. The question of the dairyman's remuneration came up at practically every stopping place, and the solution which the dairymen themselves are invariably relying on to balance the ledger is—a higher price for butter-fat.

For some reason, mysterious or otherwise, the business of dairy farming is not generally rewarding its owner-operatives on the liberal scale that every true-born Australian has been taught to expect. However greatly we may deplore it, and however seriously we may regard it, the fact is not a bit surprising. We know only too well the high figure a cow's annual production must reach to cover present day costs of running her properly as a dairy cow, and we know equally well that comparatively few of the dairy animals in use are producing value equal to this minimum requirement—at all events while butter-fat remains under 1s. 6d. a lb. It may be because the cows are too inferior, or it may be because the costs of running a dairy farm are too

high; or it may be both together. In any case, the one accentuates the other. Then again it may be, as the dairymen themselves claim, that the price of butter-fat is too low; which is a hard thing to alter. In the Australian vernacular the term "a fair cow," is applicable to any annoying individual, human or otherwise, and to any hostile circumstance, and when it comes to this question of dairymen's excessive costs, one can only agree that cows responsible for reducing such profits as can accrue to the average dairy-farmer, can never be "fair," even if they are pronounced so by their victims.

To appreciate properly what is meant by the costliness of butter production, one must not only know how charges have soared, but needs also to realize the multiplicity of those same charges, which are serving so potently to increase the inroads on dairymen's incomes already being made by their self-inflicted inferior cows. There are the costs of land, dwelling, stable, barn, cowshed, implement shed, silo, pigsties, horses, bull, cows, pigs, fencing (boundary and subdivisional), gates, dams, drains, ploughs, harrows, drill, cultivator, binder, twine, oil, harness, swings, ropes, lamps, waggon, cart, car or buggy, gig, engine, chaff-cutter, corn crusher, separator, pumps, windmill, cooler, cans, troughs, buckets, scales, boiler or copper, brooms, brushes, petrol, firewood, blacksmith's bills, produce merchant's bills, tinsmith's bills, saddler's bills, machine merchant's bills, manure merchant's bills, insurance bills, rail freights both ways, commissions on sales, municipal rates, land tax, cow tax, income tax (if he is lucky) and, last but not least, wages.

To meet these ever pressing liabilities the dairy farmer has to rely mainly on the amount of produce he can win from his cows. Naturally, a great deal depends on whether it is much or little. Realization of this should show a man the amount of consideration he should give his dairy animals, both as regards class and care; and the above catalogue indicating the heavy expenditure dairying entails, should help to bring before the community, and especially city people, how much consideration is due to the dairy farmers.

What a field to open up if we would explore to their source the ramifications of a dairy farmer's liabilities! Not a wage can be increased in the city without hitting the man on the land. Raise the price of coal in Newcastle and through a hundred channels the farmer feels the effect. From him and his fellow primary industrialists must come the whole substance of the increase. Lucky for him if he can pass it on like the others before him, but no! his industry is a bad conductor of financial charges as the arc light is of electrical charges. And like the arc light it has to resist, and suffer the friction and heat of so doing, the farmer hoping meanwhile that the light generated may shine as an example to those in other industries to accept their legitimate responsibility to strive similarly. Else why does the dairy farmer not give the same due attention to the cost of production as he does to the selling price of his product? All his peculiar difficulties are here acknowledged gladly. Great as they may be, they do not excuse the farmer failing to get reasonable butter-fat production from his cows.

We know that small deposits and long credits within recent years have enabled many men (lured by the high price of butter-fat awhile back) to take up land, who had never previously displayed ability to put much cash together at anything. In thus dispensing with the cash qualification, which always serves to some extent as an insurance on

business competency, a less capable class was admitted to dairy farming which must have been excluded, had high initial deposits been required. This, of course, has not conduced to improve the average butter-fat production of the dairy herds and is no doubt countering to a considerable extent the good services of this herd test.

The Aim of the Standard Herd Test.

It has to be recognized that dairymen are not making as much use of the test as they might and need to. To those who are availing themselves of its data, it certainly has brought reward, and will bring yet more. Its aim is to get every possible dairy farmer in possession of a good bull capable of begetting superior home-born dairy heifers.

Messrs. J. Hutchinson & Sons' "Babs of Somerville".

(Born 27.8.19.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
22.9.21	1921–22	6,827	5·08	347·40
8.2.23	1923–24	11,185	5·16	577·62
25.3.24	1924–25	15,799	5·34	843·27

The effect, of course, is not immediate, but it is nevertheless fairly sure. Not only are the heifers actually better than their predecessors, but the fact that the owner staked some money when he purchased their sire, makes him anxious to have comparisons based on real evidence of worth and not on supposition. This leads to his discovering how really bad some of his cows are. Culling results. His good fortune is, for a time, known only to himself. But not for long. A neighbour's increased cream-supply does not escape notice among factory suppliers. Curiosity is excited; then inquiry; then envy, which, among the progressive spirits of the locality, becomes emulation. This cumulative effect of a good bull's advent, is noticeable in many localities in which this herd-test is operating. One man acquires the necessary pure-breds

and enters the test. In many cases he is followed by neighbours who could never have been persuaded had they not first seen the utility of the good bull demonstrated. The same thing is occurring every day out among the Herd Test Associations in Gippsland.

The number of test-proved bulls which have been distributed, particularly among members of Herd Test Associations, is gratifying testimony of appreciation where it is most valued. There will be no better evidence of progress in the industry than to see the demand for test bulls increasing. There are plenty available to supply the need. The pity only is that they are not being absorbed faster. There is evidence, however, that dairymen are waking up to this greatest of their oppor-

Messrs. Flack & Sewell's "Dominion Iona".

(Born 11.10.16.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
27.10.18	1918-19	9,509	3·53	336·12
26.10.19	1919-20	6,583	3·42	224·91
2.9.20	1920-21	12,148	2·97	361 34
5.10.21	1921-22	12,303	3·11	382·17
1.10.23	1924-25	21,864	3·17	693·15

tunities. The Better Farming Train has been a most useful medium of reaching the people with the teaching of what the test stands for, viz., test-selected bulls in place of the existing scrub animal, and consequent succeeding generations of better cows.

Valuable aid as this testing of pure-breds is, to a dairyman, properly alive to its object, it cannot be expected to make successful the dairying operations of those men who refuse to see any other factor of success in dairy-farming than the selling price of butter-fat. There is an obligation on the dairying as there is on every industry to properly utilize the whole of its own resources, before it resorts to drawing on the resources of others. The first duty of the dairy farmer is to keep only good cows. This herd-test stands for the elimination of all dairy

cows of inefficient nature, by making it unnecessary for them to be born. The man who can see nothing worthy of support in that is not much use either to the testing movement or the industry.

Owing to the important place which dairying occupies among the really wealth-creating industries of the State, one would especially wish to see it flourishing and its attractiveness increasing. We know how stable some men have made their position with dairy cows, but invariably with good cows. We also know that if it could only be made attractive to a higher class of intelligence, that could be induced to give the same close attention to details of breeding, feeding and general care as some men we know, more general prosperity would follow as a matter of course. Instead of prosperity being as general as the State needs

Mr. R. Ralston's "Poppy of Ben Kell".

(Born 16.8.16.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
19.5.19	1919-20	6,131	5·29	324 33
13.5.20	1920 21	8,488	4 86	412·29
30.5.21	1921-22	6,148	4·65	286·09
27.9.22	1922-23	10,243	4 70	481 06
28.9 23	1924-25	12,879	5·37	692·23

it to be, it is found attending only those men who are giving their main consideration and attention to cheapening the cost of production. As these men are decidedly in a minority the valuable demonstration they offer is practically lost in the mass of dairying opinion. This opinion is chiefly that of the less successful class, which happens to be in such a majority just now. To this fact may be attributed the extent and genuineness of the discontent which now more or less permeates the industry and which takes effect in a mild form of passive resistance, or at least non-co-operation, whenever improvement is suggested through any other medium than the price of the product. It would be well if this disaffection could be turned into content without any impairment of efficiency.

Is the Price of Butter-fat the Only Consideration?

Whether or not dairymen can make the price of butter-fat a remedy for their troubles, it certainly is not the cause. The price is well above what it was before the war. Nailed down to this fact, even "higher-price" advocates will admit it, but quickly amend their complaint to read, "the price is too low relative to costs." Their claim is then indisputable, for costs on the dairy farm have certainly outstripped price. This is to no one's credit, for it is not justified, unless a higher price for butter-fat is also justified. Sauce for the gander should mean sauce for the goose. Nevertheless, as far as price alone is concerned, the present figure is really more in favour of the producer now than it was formerly. If the costs of production have not moved equally in his favour, it is for himself to discover why, and attack the trouble where it actually lies.

There is a good deal of perverseness in the attitude of many dairy farmers to their existing difficulties. However many there may be who believe that the only possible relief is through a better selling price there must be a greater number who realize that costs have more bearing on the matter than prices. Yet we find comparatively few who are willing to take as much active interest in any attempt to reduce the production costs of butter-fat as they do in the movement to increase the price. Seeing that the selling price of butter-fat to-day is much higher than before the war, whatever extra difficulty the producer now has in making ends meet, must have its root cause in some other factor.

Obviously it is the generally excessive cost of production which is the industry's chief menace. It is probably the only one. Cost of production is purely a local matter, whereas the price of butter-fat is more or less a foreign one, and, strictly speaking, hardly pertinent to the true remedy at all.

The most effective form of relief cannot be looked for apart from reduced costs. Farmers would do well to constitute this their main policy and train upon it their every wit—vocational, economical, commercial and political. But in the conduct of the campaign they would do well also not to be blind to the way they themselves, by faults of omission, are contributing to make the production of butter-fat more expensive. There is more in the art of dairy-farming than the price of butter-fat.

Success in a business cannot be measured by income alone nor by expenditure alone, but depends on the relation which the one bears to the other, or, in other words, the margin of profit. This margin, if wide, leads to prosperity; if narrow, just average comfort; if there be no margin of profit it means just that condition of chronic neediness which so many dairy farmers are now experiencing. Therefore, the thing which finally matters is the margin of profit. Surely, it might be thought, this does not need saying. But any one who knows the hopes of dairy-farmers at present knows that it does need saying, and needs almost to be made the industry's slogan.

If dairymen could only possess their minds with this homely fact to the extent that they have admitted the "price alone" obsession, we might see more rational attempts at self-betterment, and a financial improvement that could be welcomed by all as really substantial and unquestionably creditable. Of course, the margin of profit may be extended at least temporarily either by a higher price for butter-fat or by reduced costs of production. It is for the dairymen themselves to

decide the respective amount of attention which is to be devoted to each —price and cost.

Efficient Herd Management Essential.

Whatever the trades that supply purely local demand under effective protection are capable of in the way of price adjustment, an exporting industry like dairy-farming must look most to its costs if it hopes for any really stable development, or, for that matter, stability at all. Who are the really stable dairymen to-day? Only those men who have succeeded in reducing their costs without any sacrifice of output. Not one of them is receiving any better price for his butter-fat, nor have they any peculiar exemption from the common high charges which

Messrs. Flack & Sewell's "Springfield de Kol".

(Born 1.10.18.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
15.9.20	1920-21	8,504	4·17	354·62
28.8.21	1921-22	8,484	4 59	389·32
7.9.22	1922-23	10,303	3·97	407·52
15.8.23	1923-24	17,811	3·74	665·54
22.9.24	1924-25	17,353	3·83	665·05

farmers willy-nilly have to pay for their purchases. But they do have exemption from that overloading of costs which is attendant on using ill-fed and inherently incapable cows. This is where they save, and, by that saving, succeed; in spite of having to pay the inflated local prices for what they have to buy, and accept the world's "cut" prices for what they have to sell.

Notwithstanding that instances in plenty exist of good cows and good feeding methods being quite sufficient, so far, to balance the disadvantages of dearly-bought farm necessaries against cheaply-sold butter-fat, dairymen continue to be so obsessed with the all-sufficiency of an arbitrary higher price as to miss altogether the far more practicable,

more permanent, and yet quite equal gain, which even slightly more efficient herd-management offers.

There is no disputing the fact that many, even perhaps the majority, who are living by dairy cows, are not making a really commercial success of the business, and this in many cases after years of striving as best they knew and know. But it is just as much of a fact that the qualifications of those same unfortunates leave much to be desired. Bad managers or otherwise, their concern at the current prices of butter-fat may be none the less sincere, and the incompetent whose butter-fat is costing him half-a-crown, or, perhaps, even three shillings, a pound to produce, cannot be expected to regard any price short of those figures as satisfactory. One can even forgive him for believing in the approaching doom of the industry.

Of one thing we may be sure; where there is bad management on a dairy farm in these days it is exacting its penalty, and that no light one. The pity of it has been that dairymen so long evinced no disposition to alter their lot, however bad it might have been. Discontent that rises to a determination to change things is, perhaps, the first essential of every reform, and now that dairymen are really dissatisfied with things as they are, there is great hope that they may be led to include in their reform activities the better exploring of their own home-existing opportunities.

At any rate, in view of the price of land and the disproportionately low return that is being generally earned from it through the dairy herds as at present constituted, it would be a serious omen indeed for the industry if dairymen had no higher aspiration than the miserable lot that such returns must inevitably stand for. If the dairy-farmers are bent on making their labour more remunerative it is, of course, for themselves to say whether the matter of price or the matter of cost is to receive most consideration.

A better price through better quality of product, or, in other words, for better value given, is a perfectly legitimate aim and as sound as can be economically. So is the stabilizing of the price by better regulated distribution. A higher charge through what is practically coercion, without commensurate increase in value given, is by no means as safe an economical proposition. Still it seems to appeal most, not only because it appears to be the great necessity, but because of its very directness. If only attainable, it looks to be the shortest cut to prosperity. But its attainment, even with a lot of trouble, is problematical, and supposing it could be got for the asking, there is reason to believe it would not be the cure-all so many fondly imagine it to be. At best, it can never be the soundly economical advance that more efficient and consequently cheaper production would. But there is no reason, from the class point of view at least, why the two policies should not be pursued together for what they are respectively worth.

Price Control or Efficient Production.

In deciding on the best policy for themselves and their industry generally (and no fair-minded man would expect them under existing industrial conditions to consider any other trade interest), dairy-farmers would be ill-advised to put all their eggs in one basket, so experimental as price-control of a locally-excessive article. The common inefficiency was undoubtedly aggravated by the high war-time prices, which enabled even inefficients to make profits. But leaving out the probability that

efficiency of industry is not likely to be furthered by being made less necessary (which perhaps is a vain hope while man's nature is so much more human than humane), and assuming that the present low average standard of efficiency on the farms may not be made one whit worse by arbitrarily increased prices for their product, could any one with the dairymen's interests truly at heart, even then recommend price-control as preferable to the alternative, more efficient production.

Whatever use is made of price-control as an alternative, dairymen should never permit it to be used as a substitute for vocational efficiency. But can any industry give guarantees against such a natural tendency?

Of course, if dairymen can succeed in putting themselves in a position from which they can dictate their prices, they would be doing only

Mr. C. Gordon Lyon's "Molly 6th of Banyule".

(Born 20.10.18.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
13.10.20	1920-21	8,035	4·51	362·34
23.9.21	1921-22	8,670	4·75	411·81
7.9.22	1922-23	9,744	4·63	451·21
20.10.23	1923-24	12,497	4·91	613·36

what practically every other industry has already done, and it would be most unfair to blame them for what, after all, amounts only to an attempt at self-preservation. Had no other industry set the example and made the need, the aspiration of dairymen to better themselves by price-control under Government sponsorship could not be entertained for a moment. As it is, their right has to be conceded.

With the industry so vital and the need so probable, the act practically ceases to be unpatriotic. The reason reference is made to this hope of the dairymen at all is to indicate its weaknesses, so that dairymen may deem it wise not to trust entirely to it. It is an experiment, and at best an expedient. The gain has to be wrung mainly out of

people who have been placed legislatively in a position to retaliate, therefore whatever dairymen are able to charge, the probability is that others will go one better.

It might be different if dairymen had the world to draw upon for their supplies; but they have to remember that they cannot trade where they will, and thus are devoid of their only protection against such reprisals. Their surcharges would undoubtedly be immediately loaded back on themselves. Even if this were not so, there is the natural working of economic law against its own transgression, which compels one to doubt whether any material proportion of an arbitrary increase could remain with the dairyman.

Of all men, dairy-farmers should have realized before this, that all wealth, and consequently all means of payment comes originally from the land, essentially through the primary industries. Although other industries need not be considered as useful except in so far as they facilitate and support primary production, it is not the dairy farmers who have the whip hand. A secondary industry must sell before it can purchase, but a primary must purchase before it can sell. It is only by the purchases of the primary that the secondary industrialists obtain the means of buying primary produce, which includes the farmer's butter. In short, the buying capacity of the secondary industries is determined by their sales and the prices they charge. Their means of buying thus comes from the land, necessarily out of the earnings of the land worker. The money, or at least its value, which the farmer receives in payment for his butter has its origin, no less than that which he pays away, say, for his plough, in primary production; that is, it comes practically from his own industry.

As all wealth comes from the land, it is obvious that any extra charge on anybody, whether in the form of tax or price, must sooner or later hit the farmer whose industry engages him in actually creating the fund which is being drawn upon. It must first go out from him before it can come back to him. So it must be with a higher price for butter that is arbitrarily imposed. Only a small percentage of the surcharge is likely to remain with the producer, and then only by the burden, amounting to the full extra sum, being loaded on to primary production as a whole.

Just as the consumer's means of purchasing butter at 1s. 3d. a lb. comes from the land so would his means of paying an extra 3d. have to be got from the farmers themselves. And as things are now in the Australian States it would be got, and that without any necessary extension whatever of the secondary industrialist's existing powers.

When even income tax charges are being passed on in the price of goods, what reason can dairymen have for believing that a higher charge for butter will not. Of course, the percentage which might accrue to the producers, however small, may be worth striving for, even as the dairymen are now striving, but surely men who tackle a task of such magnitude as the control of butter-prices should first have controlled the home butter-fat production of their cows to something more than the 160 lb. of butter fat per cow, which is the average for this State. Supposing dairymen can manage to exact an extra 3d. a lb. for their butter-fat, and could succeed in securing the whole of the increase to themselves, the same 20 per cent. increase of income could be equally accomplished in effect by using 192-lb. cows instead of 160-lb. ones without any increase in the selling price at all; and who will say the

Mr. J. Plattfuss' "Westmere Oakwood Piebe" and "Westmere Oakwood Duchess".

(Born 20.11.19.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
1.6.22	1922-23	11,620	3·27	380·45
23.8.23	1923-24	18 941	2·88	544·54
29.8.24	1924-25	21,786	2·92	635·71

(Born 10.11.19.)

Calving Date.	Season.	Milk. lb	Test.	Butter Fat. lb.
3.11 21	1921-22	10.319	3·41	351·95
2.6.23	1923-24	9.240	3·42	318·98
3.8.24	1924-25	19,017	3·37	638·43

latter process of betterment is not the more rational, the more needed nationally, and the sounder economically? There is no doubt whatever about its being the more practicable, unless dairymen generally are actually the dolts that some people take them for.

The situation is not so desperate here that it cannot be saved by better farm-management alone; and if the city people can assist by some reduction of their charges, so much the better. It all counts. The industry of dairying is essentially the exploiting the varying capacities which certain farm animals have of turning fodder into dairy produce. The chief of these animals is the cow. Success really centres in the cow, her class, her consuming capacity, her contentment, her care, her chances altogether, which are all more or less controllable by her owner and which it is his bounden business to control.

The outstanding trouble at present is that, partly through neglect of this power of control and partly through other business men controlling more than they should, the maximum number of cows one man can most economically attend to, do not return enough for that one man's wages, after the other expenses have been met. It is all the same whether the man is the farmer himself or some one else. Think of the difference, though, accruing to the man who for the labour which one cow involves receives payment equivalent to 400 lb. of butter-fat as against a man performing practically the same labour, or at least occupying the same time, and obtaining the State butter-fat return of 160 lb. or less, as plenty do. Assume that the minimum cost of a cow (not fed concentrates) is £10 for labour and £6 for interest and equipment charges, or £16 in all, it is costing the 160-lb. man 2s. to produce 1 lb. of butter-fat. Allowing that 400 lb. of butter-fat is not likely to be got from any cow without an additional cost of, say, 1 ton of bran, or £24 in all, it still is not costing more than 1s. 3d. a lb. to produce.

Naturally the man with 160-lb. cows thinks that butter-fat should never be below 2s. a lb., and his more successful fellows cannot see that they have any interest in preventing it. If the price of butter-fat could only be kept at 2s. a lb. always and costs of production still remain as at present, it would make the rural districts a much better market for the city manufacturer's goods; for do not these same manufacturers claim that protective duties, in making city industries prosperous, are providing the farmer with his best market? The manufacturer's argument of "the more money the more custom" does not appear to have yet been discovered by dairymen in their claims for Government consideration.

It may pay a community to give to one industry, so that it can buy another industry's products, but that is quite a matter of local policy and must be avoided here. We do not know, however, that our dairy farmers' chief competitors adopted a very different policy, and these people it is who will not let our butter prices go up to what we would like in London. The Danes can produce butter-fat and sell profitably even at 1s. 3d. against ours, much of which is costing our producers 2s. a lb. before it leaves the farm. The London market is an open one; the bidder, not the seller, makes the price. Yet this has not caused our competitors there to despair even though it does make for bedrock prices. No butter-producing country but Australia has ever worried very much about the "price end" of the business. Our most formidable competitors are invariably those people who, like the most successful of our own farmers, have given their chief attention to the

costs of production. That is the field where the individual producer can really have a big say, and where his right to do so cannot be disputed.

A Lesson from Our Chief Competitor.

The Danes plump for cheap costs whatever they might think of price protection. What they are doing against us to-day is being done by virtue of the savings they have effected in the cost of all their operations. Their standard of living and creature comfort is certainly not worse than that of our dairy farmers.

Mr. T. Harvey's "Graceful Countess of Lesterfield".

(Born 22.9.16.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
19.9.18	1918-19	4,776	6·55	312·72
8.9.19	1919-20	5,443	6·91	376·20
5.9.20	1920-21	5,378	6·33	340·25
8.7.21	1921-22	5,851	6·01	351·50
4.8.22	1922-23	8,924	5·85	523·31
29.7.23	1923-24	8,189	6·45	528·22
12.8.24	1924-25	10,410	5·83	606·95

The efficiency of the Danish dairy farmer is serving him so well against us, that our dairymen would do well to learn of what it consists. It is not so long ago that the dairymen of Denmark were as hard pressed as we are; in fact, they were very like us in our present circumstances—with cows averaging 160 lb. of butter-fat a year. Why are they not now? Because they got right down to the root cause and mended their ways from the bottom up, till to-day they are able to meet our pop-gun 160-pounders with the heavier artillery of 280-lb. cows.

One of their very first steps was to discriminate in the cows they used. This they found could be done only by testing the butter-fat capacity of each. Herd-Test Associations were formed in real earnest,

which quickly put those who needed it out of the conceit that they knew the good and bad cows by their looks. This was one valuable step gained.

With test results constantly becoming available, men soon disburdened themselves of the belief that all cows produce alike if fed the same—a fallacy that is all too prevalent among dairymen here, in spite of twelve annual herd-test reports, in which the variation in individual owner's cows can be noted to disprove it. Any man who tests his cows will soon find that, do what he will, he cannot make some cows produce as well as others. A cow's butter-fat limit may be anything between, say, 120 and 1,000 lb., or even higher, per year. The world's record is, 1,614 lb. The Danes soon learned that when, in a herd of cows that are all well-fed alike, some cows failed to yield as profitably as others, the difference was one of nature; and a cow's nature, they found, was a matter mainly of breeding. This was another step gained.

They accordingly culled out the inferior producers as soon as testing revealed them, and set about the wise policy of prevention by selecting only the profitable producers to breed from.

The Dairy Farmer's Greatest Folly.

In Victoria to-day a perfectly-fed cow may be considered as not paying her owner as much as he could earn as a farm labourer, unless she is yielding at least £16 worth of butter-fat a year. There are plenty of cows here, even in the commonplace herds, that are capable of exceeding this return, if properly fed. And there are many, many thousands that would never come up to it, no matter what amount or quality of food was given them. The bad feature of our dairying is that not only have we let so many of these unprofitable cows get possession of our dairy farms but that half our dairymen are not awake to the fact that any one cow is better than another. There is nothing in view that is likely to alter this bad state of affairs, except herd-testing —Government and Association; the latter to detect the good producer and the likely good dam at one and the same time, and the former to prove the producing lines among the pure-breds for the selection of pure sires.

Dairymen must be weaned from the folly of going on year after year, trying to pick up suitable dairy cows in the market sale-yards. It stands to reason that it is the worst place in the world for the purpose. Cows that are sold, except in exceptional circumstances, might reasonably be expected to be bad ones. Even if their sale is not because of any known bad quality, it can safely be accepted that it is not because of any known good one. Many of these sale-yard cows go round and round in a circle—out of the market and back again —and their purchase generally keeps the man who indulges in such extravagance likewise going round and round in a circle, getting anywhere but forward. There can be no improvement possible from such a system of dairy-cow supply. Yet how general is the practice? Its popularity alone is sufficient to prove how rife inefficiency is among dairy farmers.

The only way to avoid being pestered with the unprofitable producer in the herd is to breed one's own herd cows on selective lines, which

here means "producing" lines. In this, again, we have the experience of the Danes to encourage us. They have succeeded in raising the annual butter-fat production of their dairy cows to an average approaching 280 lb. each. We have many instances in our own State of similar and even better improvement having been effected on butter-fat farms, by the use of the right-bred bull and the Babcock tester, and by using the sale-yard for selling instead of for buying.

Two Lessons to be Learned and Acted Upon.

Towards hastening the day when our dairy farmers will not be dairying with anything but provedly capable cows, two of our favorite

Mr. C. Gordon Lyon's "Silvermine 18th of Banyule".

(Born 23.8.17.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
21.9.19	1919-20	6,209	5·67	357·89
6.12.20	1921-22	8,435	5·12	431·85
16.10.21	1922-23	8,056	5·55	449·13
24.11.22	1923-24	9,211	5·02	462·32
10.11.23	1924-25	11,443	5·30	606·50

practices will have to be abandoned. These are the purchasing of our herd-cows in the markets, and the breeding of our milking cattle from sires—either pure bred or "scrub"—that are not known to have dairy-character. The abandonment of these methods by our competitors in Europe makes it absolutely imperative that we abandon them also.

We have to learn, as progressive dairymen everywhere have learned, that a cow's capacity to produce little or much butter-fat is a matter of her inherent character. Both sides of the ancestry, as far as we

know, influence it about equally. The capacity to produce well can be bred out of a family or a breed, or it can be bred in, by pre-selection of parents in sufficient succession, the number of generations required depending on the intensity of the principle in the animals used from the start.

When we consider how far selective breeding has been responsible for the characteristic colour, size, and conformation which differentiate the respective pure breeds, it is strange why dairymen generally are so slow to recognize its possibilities for improving and fixing butter-fat capacity. All that distinguishes the various pure-breeds to-day was arrived at by pre-natal design in mating. The high test of the Jersey, the high milk-yield of the Friesian, are no more accidents than are the respective bred colours and conformations. These points of form recur with comparative certainty when pure-breds are mated together now, because for hundreds of generations they have been part of the breeders' design. The points of function are not quite so sure because they long eluded the judgment.

How Characteristics are Developed and Eliminated.

Why is it that the ideal beef Shorthorn, Hereford, or Poll Angus have hardly any udder-development at all? Not because it was considered any advantage in a beef-breed not to be able to feed a calf, but because milk-production, being considered of no material consequence in the ideal aimed at, was too frequently neglected right down the generations by which the breed type was progressively evolving. Because it was not deliberately bred for, good udder-development practically disappeared from these breeds.

It serves to show that to retain a character in succeeding generations with the utmost security, one can never afford to let it be missing from one link in the chain of pedigree. Yet this is what is occurring on the dairy farms everywhere and every day. There are but few dairymen doing anything very deliberate one way or the other. Certainly no one would charge them with wantonly attempting to breed inferiority into their dairy cows; but they are doing what is only slightly less effective in this disastrous direction by not giving any attention to the degree in which the parents, and particularly the sire, possess butter-fat character. This character is undoubtedly more or less hereditary, and likely to become more and more so with every year of mating high production to high production for reproduction purposes, test-proved, as these characters can be ensured now. If anyone doubts the hereditary transmissibility of test-character, let him take a low-testing cow and mate her and the successive generations to pure Jersey bulls always, and see how few generations are needed to get the Jersey high-test an established characteristic of the progeny.

A Bull of High-producing Strain Essential.

It is a very exceptional dairyman in Denmark to-day who is using a bull that is other than pure-bred and of high producing strain, as betokened by the yields of his immediate female forbears.

Strictly speaking, to breed real dairy cows in the shortest possible time and with the greatest degree of certainty, both cow and bull should

be pure bred and of proved dairy quality. This is hardly practicable to the ordinary dairy farmer, because of the expense of the females, through the great number required. The best that dairymen can be expected to do in that regard is to breed from the best producers in the herd, whatever that best might be. The scales and tester must be the guide to this. Hence the necessity for cow-testing associations throughout the State. With regard to the sire, something more is required. He must be pure bred, and have as well good producing records behind him, especially in his two nearest female ancestors.

While hailing the many new herd-testing associations already formed and about to be formed, which are designed to reveal the butter-fat

Messrs. Flack & Sewell's "Bainfield No. 40".

(Born 9.5.18.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
24.4.20	1920–21	8,667	3·54	306·68
6.4.21	1921–22	8,548	3·56	304·44
23.4.23	1923–24	11,587	3·50	394·96
12.4.24	1924–25	17,131	3·52	602·72

capacity of herd cows in common use, this department restricts its own testing work to the pure breeds, to ensure that the right class of sire is ever available to the breeders of the State's dairy cows. So much depends on the bull. Whereas a cow produces one calf a year, the bull may beget a hundred. Every one of these traces back to its sire for good or ill—chips off the old block. The bull one introduces into the herd to-day to keep the herd replenished with his heifers will be more or less reproduced in every cow one milks a few years hence. By that time his blood will be throughout the herd.

It has been said "that the bull is half the herd." He is all this, and more, to the man who knows what bulls are really meant for; that is, the man who breeds his own dairy cows.

Here again dairymen are letting their favorable chances slip. In the bull exists their very best opportunity. Just think! As a fruit-grower can lop off his chronically unproductive trees and insert into them scions of a really proven producing sort, till the whole orchard without exception consists of the same proved profitable variety, so, on the same principle, can a dairy farmer graft into his whole herd the best producing strain of blood by introducing one animal—and that animal costs no more to purchase than two, or perhaps three, utterly unprofitable saleyard cows. The one multiplies his worth every year; the other investment shrinks to nothingness.

What manner of orchardist would he be who took no care in selecting the variety of his scions—his trees to be? Yet no worse than the majority of our dairy farmers; for how many of these take any precautions to select the necessary nature in the bull which is to model the herd on which their future bread, as well as their butter, depends.

"Modelling the herd" may strike some dairymen readers as a new function for a bull, because, true it is, that many who are clamouring for dairymen's rights have not yet discovered any use for a male animal in their herd, except to bring their poor miserable specimens of milking cows into milk again. They pray that some neighbour may keep a good beefy sort, addicted to wandering, and so save them the necessity of keeping either good fences or a bull of their own, and at the same time save the quality of veal in the resulting calf. These acts of folly are frequently quoted as "savings," in spite of which their work as dairymen is unprofitable. They are really quite sufficient to be the cause of the deficit. One thing is certain, real savings and these savings are not likely to exist together. What progress can any man expect whose home-reared heifers should be so devoid of design?

What is a "Pure-bred" Bull?

If one would have his dairying operations pay, he must confine his herd to profitable cows. If one would have this class of cow exclusively, the best attempt he can make is to shape them out of like material. "One cannot make a silk purse out of a sow's ear." The only known "shaping" process is breeding. Breed from the pure-bred bull, born of butter-fat ancestry, and the chances are that his heifers will be as good to their owner as a rise of threepence in butter-fat. Breed from the nondescript scrubber, and one might as well not breed at all. It is just as hopeless as trying to pick a herd in the saleyards or "picking winners" in entire ignorance of past performances.

Though building a herd on these lines may be like horse-racing in its uncertainty, it differs in not being a form of recreation to which uncertainty adds zest. We take it that the certainty of uncertainty which attaches to cow-buying so generally now, is not the reason of the practice's popularity, and that it would be eliminated if possible. There is but one way; adopt the system of the selected bull and home breeding. This cannot be expected of any one till he at least knows what the word "pure-bred" means, and why it is essential. A pure-bred is an animal that conforms to the conformation and colour that were expected when its parents were mated, and which when mated with like characters will pass like breed attributes on to its progeny.

Mate a Jersey with a Jersey, and one can expect a Jersey. Mate a Friesian with a Friesian, and one need not anticipate anything dif-

ferent in the offspring. And similarly with any of the pure breeds. They breed true to their own respective breed characters, thus proving the characters hereditary. Too long a time has been spent in consummating this feature of the pure-breds for it to be thrown thoughtlessly away at this late stage. The characters were not always hereditary. Disappointments in breeding were once much more frequent than now. Success has been made possible by constant vigilance over the long lapse of time since the breed-ideals were first conceived in men's minds. Ours is the advantage in being able to start with cattle already so far advanced towards perfection of both type and utility.

Modern dairymen have a responsibility to at least preserve what the pioneers have won. It is only ignorance of the bull's great potency

Messrs. Smith & Sons' "Halecote Oakleaf Fobes".

(Born 1.7.20.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb
1.8.22	1922–23	8,415	3·55	298·52
18.8.23	1923–24	13,690	3·43	465·81
16.8.24	1924–25	20,199	3·18	642 10

for good or ill which prevents any dairymen from having a herd of high producing cows; that is, ignorance of the great part that heredity has played, and the greater part that it is about to play in bringing us to the desired goal of all-profitable dairy herds. True, many of the well-fixed breed-points of existing breeds are of little utility, but they are, nevertheless, of some value in confirming the pedigree of the animal. The cocked horns of the Ayrshire, the absolute hornlessness of the Red Poll, the essential big frame of the Friesian, the relatively small frame of the Jersey, have all been made typical. When a character is handed on, as these are, from parent to offspring, generation after generation, it is evidence that it has been possessed by very, very many of the animals composing the pedigree. In fact, this is why it persists.

The fact of generation after generation of cattle breeders, all mainly in agreement as to what is most desirable in an animal, and using for breeding only sires and dams that possessed the approved characters, resulted in progressively less and less frequent variation, till eventually the goal of what is practically uniformity, was attained. Animals bred so much, and so systematically to design, and embodying in themselves all that the most capable cattle-men of the past deemed best, might reasonably be expected to have some value over and above animals bred on no system at all. And so they have; for in them we have ready-made a prepotency or permanence of character which awaits only the permanent inclusion of butter-fat character to make possible throughout every dairy herd everything of greatest value in a dairy animal. All the evidence points to this most valuable quality of all—heavy production—becoming as constant an attribute of the existing pure dairybreeds as are the peculiar breed-points by which we know their purity. But it can become really typical of whole families only by its being repeatedly included in the matings, generation by generation. To do this, requires observation of each animal's lineage, else how is one to know what blood, high-producing or otherwise, one is using. The only animal with blood lines on record, or, in other words, pedigreed, is the pure-bred.

For this reason we must discard as a sire any animal whose full pedigree is not available. This rules out the "scrub," and, in fact, every bull but the pure-bred. Nothing need be expected of any other. This Standard Herd Test is a continuous search for high-producing capacity in pure-bred dams, the best advance-evidence we have, so far, of a son's potential worth as a herd sire.

Something More than Pedigree Required in Dairy Farm Bull.

While thus pointing to the great advantage which pure blood offers, it needs to be emphasized that being pure merely in the visible characters is not sufficient, where butter-fat is the objective, as it should be. Many men have long known that better results of a kind are obtainable from a pure-bred bull than from a "scrub." In realizing that, they have not realized all. From a dairyman's point of view, breeding with a bull with nothing but his type and herd-book number to recommend him is disappointing. How many dairymen wishing to be progressive have made a point of using only pure-bred bulls, and yet have got no further as far as butter-fat production is concerned? Some have gone even further, and made a point of selecting only prize-winning purebreds, thus ensuring a choice which had the support of the judge's opinion, yet with no better results.

This is because too many purebreds have been bred with no proper attention to butter-fat character. At one time men did really believe that a cow had but to conform to what is known as "dairy type" to be a profitable dairy animal. For many years, appearance was the common test for butter-fat. It is quite common still to hear men dogmatize that certain things are proofs which have already been proved absurdities; such as that a yellow skin means high test, which is no more necessarily so than that a yellow milk is necessarily rich milk. Something more than colour is needed in milk, and something more than colours and shapes are needed in a dairy cow to prove that she is a good one.

Performance Rather than Appearance.

It is obvious that appearance cannot reveal function as truly as it does form or size, and though a cow may be a great producer without any particular elegance of form, or any greatness of size, she can never be a milker without the milking function—a character which does not reflect sunlight, and is, therefore, invisible. Consequently what we have learned to regard as the most important single character in a dairy cow was often missed unintentionally, while the comparatively non-essentials, from a dairying point of view, were rarely missed at all. This is why even in such famous dairy breeds as the Friesian and Jersey, which are as prepotent as any in the capacity to produce milk and butter-fat, high-producing character of parents is not so certain of reproduction as is the respective breed type. It simply has not been introduced as consistently in the long series of matings by which the present breed was evolved.

Such omission rarely occurs now among the recognized dairy breeds. All these breeds now have men working on them who appreciate high and persistent producing capacity as the first essential in a dairy cow, and the only one that entitles her to the name. Men of this conviction have naturally come to regard testing as indispensable. It may safely be anticipated that the more that herd-test records are relied upon in breeding operations, the more we shall see those particular herds forge ahead in real dairy utility. And what applies to a herd applies also to a whole breed. The breed that is bred most on test data will be the foremost dairy breed of the future.

The moral is—if we would progress or even hold the improvement we have already attained, in the way of butter-fat production, we must continue to discriminate even within the breed itself. There are impossible dairy cattle among the pure-breds as there are among the common variety. No strain is so exclusive to a breed that its exclusiveness cannot be lost by neglect, and this is especially true of efficient udder function.

"Test and Select" at all Times.

We must test and select, test and select, even though we are working on pure-breds; all the time confining propagation to the comparatively few bulls which testing reveals as the best; and discarding every bull, no matter what his breeding, and however showy, so long as there is no test-evidence to show him worthy.

The breeds which are at the top now in butter-fat production are there because the selective-mating which governed their evolution was more exclusively on butter-fat lines. The breeds which are near the bottom are those whose breeders are more generally attached to other ideals than actual high-producing capacity. The cows which will excel in butter-fat in the future are those with parents most strongly infused with the character.

There seems to be great danger that some breeds will be pushed right out of existence owing to their fanciers' neglect in this regard. If nobody were working on test data, no one breed need be in more danger than another, but with some breeds having practically every bit of their breeding material subjected to preliminary test, one must feel sorry for any breed depending on the old, crude and obsolete methods of determining dairy qualities.

The "Best" Breed and the "Worst."

The conduct of the Standard Herd Test is, of course, quite impartial to any breed as such. Judging by the frequency of the inquiry, there are many dairymen who think we ought now to be able to answer quite definitely the question, "Which is the best breed?" It would be a convenience, indeed, if high production ever became confined to animals of a certain shape or colour; but the day is not yet in sight, nor is it ever likely to be, when a cow will be known to be good merely because she mixes in a particular society. The best breed is the "dinkum" dairy cow, and there is no reason why she should be either black and white, fawn, or red and white speckled, provided the cattle of one colour are tested and culled as rigorously as the cattle of another.

No one realizes better than the herd-testing staff of this Department that there is good material in every breed, which could be made to give its character to the breed in general, if selection were confined to the animals possessing it. Selection can never be restricted to these individuals if they be not known. The only way to identify them is by testing. Provided all breeds make equal use of the test, we never shall be able to say which is the "best" breed. But if it ever happens that the only men who refuse to countenance herd-testing represent all, or nearly all, the breeders of any one breed, the cattle of that particular breed must fall to a very inferior level as dairy animals, probably ranking in dairy character, intermediate between the pure beef and the real dairy breeds. Then, if we should still be unable to say which is the "best" dairy breed, we might be able to pronounce definitely which is the "worst" dairy breed.

Assuming that what has been said here is sound, what does it all suggest to the ordinary dairy farmer working with the common "scratch" herd? It means that the sooner he can bring his resolution to the point of procuring for his herd a bull that is both pure-bred and test-proved, the better. The telling of a way both simpler and quicker than "breeding up" would be much pleasanter to all concerned, but unfortunately there is no such. The method suggested may be slow, but it will be found a much quicker way to a profitable herd than the apparently shorter cut of buying on their looks one's herd cows, ready made. Choosing thus may get cows sooner, but not the cows one wants. These may never come at all that way. With dairy cows of unknown breeding, many have to be called and few chosen. Even with home-raised heifers from a selected bull, discrimination has to be exercised, for testing will prove them not all equally good. The necessary rejections will be comparatively few, and those chosen for their dairy quality will be no longer speculations, but certainties.

Past Delay no Reason for Future Delay.

There is no royal road. The first step is to select the right bull and await his heifers. Having to wait this long for the first results is no excuse for not starting; rather is it a reason for refusing to delay even a minute. The lower the yields the more urgently a good bull is needed, and the more likely is he to effect improvement. In many herds a 300-lb. cow is a thing unknown. Making a 200-lb. herd into a 300-lb. one is much easier than increasing the next 100 lb. There is no excuse for any dairy farmer being without the class of bull capable of raising his butter-fat average to the Danish 280 lb. per cow, which would probably be 300 lb. per cow if the Danes had our climatic advantages.

Certificated not Tested.

Bulls from certificated cows can be procured from almost any breeder who is testing his herd. It is well however, to study a breeder's records thoroughly before making a choice. It should never be concluded that because a breeder has one good cow, or, perhaps, several, that all his cows are good likewise. The individual record of the young bull's dam is the thing of most importance to the intending purchaser of a herd sire.

Dairymen should be careful never to buy a bull from an uncertificated cow, no matter in what bovine society she may move. If her owner claims she is an aristocrat, one should remember that those known

Messrs. Flack & Sewell's "Burnbank Mercedes Violet".

(Born 8.11.19.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
13.6.22	1922–23	8,632	3·34	288·03
1.5.23	1923–24	9,348	3·53	330·20
25.3.24	1924–25	18,667	3·21	599·56

by that name do not usually work. Many members of our dairy breeds are much too artistocratic. One can imagine some of them saying, "The idea of a cow of my show-ring reputation being expected to produce butter-fat for a living; and as for being tested, horror!" A bull from this class of cow is not a safe investment for any man whose living depends on butter-fat.

Testing is the only way of knowing what profit is in a cow. Profit must be the first consideration when a dairyman selects his bull. An assurance that the bull's dam is a tested cow does not necessarily mean that she was a good cow. There is many a tested cow that cannot produce enough butter-fat to get a certificate. Dairymen should look for something more in the dam of a bull than being merely "tested." If

a cow has been tested, her record is easily available, and the owner should be asked to supply it. He can always show the figures in print if the cow is certificated. In any case, by an inquiry posted to the Department of Agriculture, the inquirer can soon learn the production record of any tested animal. It is on his dam's and his sire's dam's butter-fat records that one should judge the dairy character of a bull for the dairy herd.

Tested cows are often duffers, as may be seen by looking over the various records. A certificated cow is a proved cow, and as the standards are now, her bull calf by a good pure-bred sire, should be quite suitable to raise the standard of any average dairy herd.

Dairy Farmers Must Rear Their Own Herd.

Every dairy farmer should test his cows; he should keep a pure-bred quality bull, and raise the heifer calves from his best cows. Then if he fails, it will not be because of the class of the animals he is using, but most probably because of their condition through under-feeding. Dairy cows cannot be raised without considerable cost; unfortunately this cost cannot be avoided, for there is no alternative. Costly or not, the dairy farmer must rear his own herd, and it is never anything like as costly as the methods that are fondly attempted as alternatives.

It is no good any butter-factory supplier saying he cannot rear his own necessary dairy heifers. Whether his farm is small or big, he simply has to do it, if he would make wages. The trouble on the small farms is that the land which should be spared for the young generation is occupied with bad cows in excess. If the tester were put to work, twenty-five per cent. of the cows could be removed without any detriment to the margin of profit, and their place could be occupied with born and bred dairy heifers which would be a real asset. It is a fortunate man, indeed, whose every cow is so good that he does not know which one he can displace to make way for a couple of systematically bred youngsters. If land is too valuable to run them, it is certainly much more too valuable to run cows that are just as unremunerative, and which have the additional disqualification that they have to be milked daily.

A Good Bull the First Requirement.

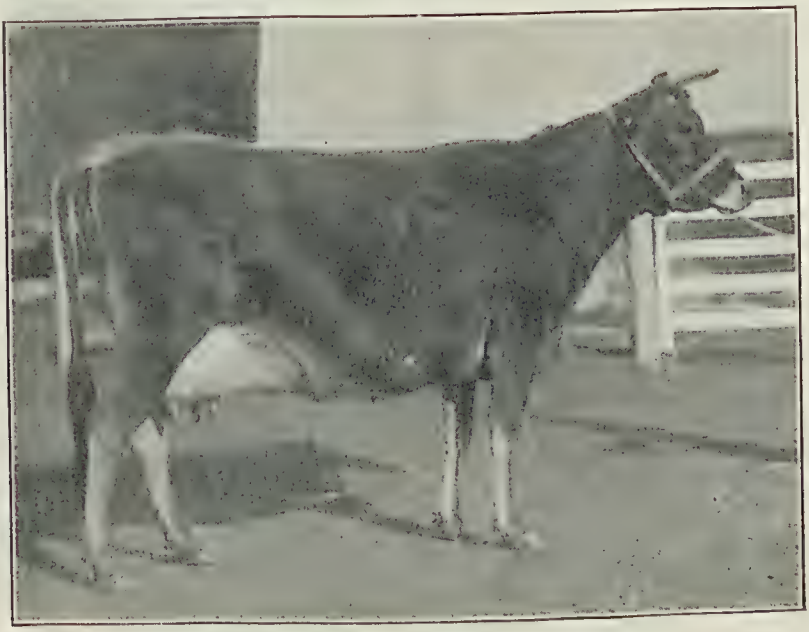
Reference has been made further back to the expensiveness of present-day dairying. One of the most burdensome imposts is the high price of land which can never be altered as long as easy credits and inexperienced men co-exist.

The effect of high land values is that the original purchase exhausts too much of the purchaser's available capital, for which fact the "scrub" bulls of the State should be thankful. If only 5s. an acre could be knocked off the price of the land, it would serve to buy the pure-bred bull that is now so necessary, and which so many dairymen baulk at because they owe money already. A sixpence off one thing and sixpence off another of the many bills a farmer has to pay would also go a long way towards furnishing a fund for purchasing the right class of bull. But those extra sixpences are the prerogative of the men who are not dairy farmers, and for this fact also the "scrub" bull should be thankful.

But high and all as is the price which many new settlers have paid for their land, it is quite possible even yet to bring about salvation by

better dairy cows. The chief function of the land is to provide maintenance for the cows. As far as this alone is concerned, a good cow needs no more land than a poor one. That is, if £100 worth of land will carry a cow at all, it will carry a good one as easily as a bad one. Whatever area of land a cow requires, a good one will invariably pay for more than she uses. She probably gives her owner £20 for what he is paying £5. A poor cow invariably pays for less land than she uses. The cow whose return equals only the cost of labour and purchased food is giving no return for the land that is running her. Value can be given to or taken away from land according to the class of cow one allows to consume the pasture it grows.

An impression prevails, particularly among city-folk, that cows *give* milk. They do no such thing—they sell it at a price To ensure the



Mr. C. Gordon Lyon's "Velveteen 5th of Banyule".

(Born 17.9.20.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
12.9.22	1922–23	6,201	4·40	272·81
20.12.23	1924–25	10,202	4·81	490·66

delivery of their produce, the owner has to pay each cow £3 or £4 a year out of his pocket to provide her with pasture; give her labour that he could get £12 or £14 for elsewhere, and give her a value of, perhaps, £8 a year in food concentrates. Not every farmer is getting a square deal from his cows. Unfortunately, too, not every cow is getting a square deal from her owner. Which is getting the advantage can never be known without testing, but it stands to reason that no business can go on paying out more than it receives. The fact that there are cows on the farm getting more than they pay for, means, of course, that the best cows are not getting their due. This must always be the case where unknown quantities are treated equally. The remedy is to know

one's cows, and know also the material used for replacement. In no other way can the dairy farm be made to meet all the liabilities that crowd around it.

Every farmer should aim at an average of at least 300 lb. of butter-fat a year per herd animal. Once we know the cows that have this capacity they can be reproduced by using a bull begotten of the same or better quality. A bull will reproduce himself, perhaps, a hundred times a year, a cow almost certainly but once, a motor car not at all, although it costs many times more than either. The bull is the thing. In no other form is £20 or £30 of the dairy farmer's money likely to help him so much.

A glance over the figures of the various records should show the prospective buyer where the right class of animal exists. He will there see individual records up to 843 lb. of butter-fat for nine months' milking, and whole herds that yield well over 400 lb. per cow. By their fruits he may know them, and having located, as it were, the class of tree which he himself would like to be trusting to for the fruit of a living, he may secure a bud of the tree itself in the form of a young bull, and it will be very exceptional if the offspring be not of the same quality and nature as the stock from which it sprang.

It all amounts to breeding—good producer to good producer—like to like. Even the comparatively impotent recessive unit character will reproduce itself with certainty provided it is crossed with its like. This law of heredity is eternally operating. It rests with dairymen themselves whether it is to be the pure-bred or the "scrub"—their doing or their undoing.

Feeding is Next to Breeding.

A word of warning is perhaps called for, to the inexperienced, reading, for the first time, advice such as has been offered; that is, not to ever imagine that any system of breeding can ever be a substitute for food. The owner's business is to so arrange food supply that the cow will have full and plenty every day in the year without undue trouble in getting it. A cow has no other source of milk supply than the food she consumes. Good or bad, the cow is merely the manufacturing machine. The material for milk-making is only that portion of the food supply which the cow does not need to devote to her own body needs. These always have first call, and there is nothing over till they have been met. The point to be remembered is that as far as this particular part of the food's function is concerned, no more is required for a good cow than a bad. This initial feeding cost (body-maintenance) has to be incurred for all cows. Size is practically the only factor which requires the quantity to be varied, and then within only narrow limits. The amount can be calculated for a cow of any given weight, and the owner must ensure that she gets at least the required minimum, or she will not live efficiently, let alone milk efficiently.

For either milk-production or the putting on of flesh a cow must receive a food-portion over and above this maintenance amount. This is where the good producer's food requirements as well as her deserts differ from those of the poor producer. More milk does certainly require more raw material in cows of equal producing-capacity, but the extra outlay is never a risk if it be supplied only when the cow

has proved her capacity to pay for it. The mistake most dairymen make is that of under-feeding even the lowest-producing cow in the herd (except during the short period in each year when it is less trouble to over-feed than to under-feed). They thus deprive themselves of the rare advantage of possessing a good cow. The better the cow, the more they are losing by this practice. Even 1 lb. of milk is equal in value to 1 lb. of milk-making concentrate, and there is in the latter material for 3 lb. of milk. All that is required is the class of cow that uses for milk whatever surplus food she acquires. Proving the cow's milk-making capacity before providing her with the milk-making material, protects an owner against waste. Extra food cannot be wasted if one insists on seeing the cash "put up" before it is supplied; and proved ability to yield responsively is as good as the cash if it only returns one extra pound of milk for each pound of extra concentrate. If the

Mr. T. Mesley's "Agnes 2nd of Warenda".

(Born 22.9.21.)

Calving Date.	Season.	Milk. lb	Test.	Butter Fat. lb.
22.7.23	1923–24	5,024	6·49	334.59
11.9.24	1924–25	8,035	6·40	514·43

latter produces 3 lb. of milk, as it well might in the right cow, it is returning threepences for pennies. No dairyman is wise who does not so test every cow's claims. Of course, only cows with appetites make claims for food, and though a hearty appetite is an essential of a good cow, it is by no means proof of one (although, perhaps, it is as good proof as many another relied on).

So much of the cow's milking efficiency depends on her body fitness that no dairyman can ever afford to let a milking cow get out of condition. A fit cow's butter-fat test cannot be changed by any change of feeding methods, but it is certainly changed, and for the worse, by any feeding alteration which impairs the body fitness of the animal. This fitness of body must never be lost if the cow is to give her owner the best that is in her.

A poor-conditioned cow is an impaired cow, for a season at least, and it takes more than impaired cows to make dairying pay to-day. Food has not only an immediate effect on production, but it has another and almost equally valuable effect in building up reserve force for future use. This applies especially to food received by a cow when dry. The value of condition on a dry cow has been proved time and again, when she comes to be tested. Dairymen should never attempt profitable production with ill-conditioned cows. Good roughage and a little concentrate to a cow when dry is never thrown away if she be a dairy animal.

SOME FEATURES OF THE YEAR'S WORK.

The whole year throughout was an excellent one for dairying, as far as natural conditions were concerned. Leaving the human element out of the question, it is not likely that the industry will ever enjoy a more favorable season. This has been reflected in the records, unless we are to attribute the improvement to some other factor. This might well be, for herd owners who have had years of testing might naturally be expected, not only to become more proficient in feeding methods year by year, but also to be deriving the inevitable advantage of the culling which, to any true dairyman, is the corollary of testing and test expenditure. Every year in the Annual Report the importance of rigorous culling has been emphasized, and it would be a pity if, because it has not been so stressed this time, any one should imagine it is no longer advocated.

The progress in the average production of all the properly managed herds is mainly due to culling. Better feeding, breeding, testing, and culling will improve any herd, and the position of a herd near the top in this test is evidence that it is in the hands of a man who recognizes the dairyman's obligations in these directions. That better results have been obtained this year is evidenced by the fact that fourteen cows exceeded the 600-lb. mark, whereas the number previously has never been more than three. A review of the highest individual production in each year also satisfies one that the test is operating for improvement, with a few oscillations certainly, but nevertheless advancing.

TABLE SHOWING YIELDS OF THE BEST COWS IN EACH YEAR'S STANDARD HERD TEST SINCE ITS COMMENCEMENT.

Year.	Best Cow over 4 Years Old.	Best Cow Between 3 and 4 Years.	Best Heifer Under 3 Years.
	Lb. Butter-fat.	Lb. Butter-fat.	Lb. Butter-fat.
1913	388	311	256
1914	585	469	376
1915	706	499	446
1916	523	439	347
1917	542	425	347
1918	518	441	410
1919	577	519	494
1920	718	512	450
1921	581	582	427
1922	647	497	527
1923	616	524	486
1924	720	578	425
1925	843	563	514

This year has seen the previous best individual production of butter-fat beaten by 124 lb. The wonderful cow which has done this is a Jersey. She is called "Babs of Somerville," being bred and owned by Messrs. J. Hutchinson and Sons, of Somerville, on the Mornington Peninsula, a district suitable for apple growing, but not the sort of country in which one would look for a cow to break butter-fat records. "Babs'" record of 843 lb. of butter-fat shows to what a wonderful degree production can be developed by selection and suitable feeding and care, even in small-sized animals. She was weighed on the Tongala weigh-bridge when travelling with the Better Farming Train just after the completion of the records, and turned the scales at seven hundred-weight. The credit of the record is enhanced by the fact that "Babs" was not five years old at the commencement, and further that it followed on two previous records, 347 lb. (as a heifer) and 578 (on second calf), which would do any cow credit. While extending all due praise, it is only right to mention also that she was milked three times a day on the last lactation.

There is nothing in the appearance of the cow to explain such phenomenal producing capacity. Consequently we must ascribe it to the invisible influence which necessitates herd-testing to disclose, and which she received at conception, when cows receive the many other invisible characters which go to their making. Unfortunately we do not know much of the possibilities of Bab's dam, because she died in the course of being tested. We do know, however, that she was a full sister of Thana of Somerville (550 lb. fat) and Audrey of Somerville (425 lb.), and that her sire, Annette 2nd Twylish of Kingsvale, was the sire also of the persistently high producer, Beauty 4th of Somerville, which averaged 528 lb. of butter-fat per year for five years in succession, and is still engaged in another lactation, which looks like again being over 500 lb. "Babs" has Lord Twylish blood from both her dam and her sire, Daphne's Prince of St. Johns. This bull was killed when comparatively young because of his tendency to be vicious—another instance of an invaluable animal being passed out before his virtue had been discovered. He was a line-bred bull, to Lord Twylish blood, and his maternal grandsire was Audrey's Lord Twylish, the sire of so many good cows, some of which appear in this year's records, such as Molly 6th of Banyule (613 lb. fat), Empress 2nd of Holmwood (483 lb.), and grand-sire of still more.

Another phenomenal producer appears this year in the Friesian "Dominion Iona," owned by Messrs. Flack and Sewell. She has got among the grand performers this time with a record (on thrice-a-day milking) of 693 lb. Here, again, we have evidence of the hereditary transmissibility of butter-fat character, for her sire Woodcrest Jo is the sire also of last year's top cow Dominion Queen Mercedes (720 lb.), and such other famous producers as Dominion Segis Fobes (616 lb.), Dominion Coringa (498 lb.), and Dominion Violet Fobes (497 lb.).

The annual champion prize goes this year to Mr. R. Ralston's Ayrshire "Poppy of Ben Kell," the cow which produced the most butter-fat with twice-a-day milking, viz., 692 lb. "Poppy" is by Girvan of Oakbank, a bull which has sired most of the best producers in Mr. Ralston's herd. Back again to a thrice-daily milked cow, Messrs. Flack and Sewell's well-known Friesian, "Springfield de Kol," is the fourth highest producer for the season, with 665 lb. of fat, which

figure was also her record last year. She comes of blood noted for prepotency, her sire being Rosevale Inka Sylvia Posch, and her dam Springfield Lady Hengerveld. Last year's report dealt fully enough with the merits of these two lines; therefore it is unnecessary to discuss them now, except to say that another cow which figures well in her class this year, Mr. Russell's junior-four, Springfield No. 9 (575 lb. on three times a day milking), is also by the sire of Springfield de Kol. We have to get down to the top cow in the junior-four class, to refer to the next highest producer—an excellent young Friesian, "Halecote Oakleaf Fobes" (642 lb. on thrice a day milking), ex the "Wooderest Jo" cow, "Dominion Segis Fobes" (616 lb.), and by "Dominion Oakdale," which bull was imported by the Department of Agriculture from New Zealand. This bull is, through his sire "Dominion Homestead 2nd Oakwood Fobes," a brother of "Dominion Oakwood," which latter bull is responsible for two daughters (this time in the senior-four class) which have well exceeded the 600 lb. mark this year. These are Mr. J. Plattfuss' "Westmere Oakwood Duchess" (638 lb.), and "Westmere Oakwood Piebe" (636 lb.), both of which were milked three times a day. The close blood relationship of so many of these best Friesians is wonderful encouragement to dairy-farmers to put their trust in breeding. The argument for selective breeding is again supported by the next cow in order of actual production, Mr. O. J. Syme's imported Friesian, "Eco Sylv Belle." This cow's record, on thrice a day milking, of 626 lb. follows one of 566 lb. last year. She unites in her exceptional producing quality the proved reputations of the de Kol and Pontiac families along with the famous families which compose her name.

Mr. Gordon Lyon's Banyule herd is well represented and near the top this year with two cows Molly 6th of Banyule (613 lb.), and Silvermine 18th of Banyule (606 lb.), each name recalling many fine records which have been put up by the respective families. Molly 6th is by the famous Audrey's Lord Twylish, a near ancestor of Babs also, and Silvermine 18th is by Mabel's Chief (imp.). Both these cows were milked thrice daily.

The cow which has the second highest butter-fat record on twice-a-day milking is "Graceful Countess of Lesterfield" (307 lb.), a member of Mr. T. Harvey's Jersey herd. She has previous records of 523 and 528 lb., and belongs to the Graceful Duchess family which testing has revealed as heavy producers. Their number is legion. With high production on her mother's side, Graceful Countess has the additional advantage of being by that noted bull, Lesterfield Boy 1577, believed by many shrewd breeders to be one of the most successful test bulls that testing has so far disclosed; in fact, rivalling his sire Pretty Noble in that regard. He is identical with Handsome Boy 3rd of Melrose 710, being entered in the herd-book twice under the two different names. The high tests of his numerous progeny are worth studying.

The object of herd-testing is to discover which are the good cows to breed from, and its tendency is eventually to connect up whole family relationships in which this desired character is prominent. One can hardly deal with a high record now without being drawn interminably into references to similar high production among close blood relations. Reputations are becoming a family as well as an individual matter.

The reputation of high test is associated with the Bainfield family of Friesians, one of which, Bainfield 40, holds a conspicuous place this year with 603 lb. butter-fat. She is another of Messrs. Flack and Sewell's Friesians, as are such other striking producers as "Holland Lass 2nd of Berry" (600 lb.), "Burnbank Mercedes Violet" (600 lb. as a junior four-year old), "Rosevale Rosie Abbekerk" (563 lb.), which is the leading cow in the senior-three class. All these four cows were milked three times a day.

Mr. Atkinson's noted Shorthorn "Cherry of Willow Park," last year's prize winner, with 636 lb., is again well to the fore with 597 lb. She is a blood relation, through her sire Havelock of Darbalara, of the world's champion cow, as dealt with more fully in last year's report. It all shows how blood tells.

Mr. T. Mesley's "Madrigal of Warenda".

(Born 10.9.22.)

Calving Date.	Season.	Milk. lb.	Test.	Butter Fat. lb.
10.9.24	1924–25	8,362	5·81	485.55

The highest yielder in the junior-three class is the Jersey "Velveteen 5th of Banyule," with 490 lb. Her sire is "Milkmaid's Chief," a bull which has done good stud service in Mr. Lyon's "Banyule" herd, and which was retained by Mr. Lyon mainly because of the fine yield of his dam.

Coming to the senior two-year-old class we have another remarkable example of the heredity of butter-fat character. Every one knows "Agnes of Warenda," the highest producing heifer we have ever had in the test. Mr. Mesley, who owned her, must be pleased to see the same valuable quality carried on to the daughter "Agnes 2nd," which is top of her class this year with 514 lb. She is by Jazz of Warenda, also bred by Mr. Mesley, from the well-known "Charmian" (523 lb.).

Mr. Mesley also owns the best heifer of the year, "Madrigal of Warenda" (486 lb.), by Kewpie of Warenda. "Kewpie" is from the well-known cow, "Garenne 2nd," one of Mr. Mesley's highest and most persistent yielders. "Madrigal" is out of "Warenda," another over-500-lb. cow.

New Herds During Year 1924-25.

The following are the breeders who have entered their herds during the course of the year:—

Name.	Address.	Breed.
Corben, A. F.	Irrewarra	Jersey
Cameron, D. and Son	Valencia, via Boisdale	"
Cathro, J. H.	Chiltern	"
Cook, D. E.	Loch	"
Dwyer, G.	Balwyn	"
De La Rue, N. C.	Weering	"
Gardener, J. L.	Welshpool	"
Gazzard, D.	Bostock's Creek, via Camperdown	"
Gilbert and Burns	Euroa	"
Hearn, M. H.	Elliminyt	"
Hogg, R. O.	Colac West	"
Hurrey, W. H.	Koonwarra	"
Hall, E.	Tongala	"
Lehman Bros.	Horsham	"
Littledike, H. N.	Werribee	"
Moody, C.	Warragul	"
Noble, T. M.	Maffra	"
Patullo, H.	Longwood	"
Rogen, W. P.	Tatura	"
Simpson and Charlton	Lower Ferntree Gully	"
Webb, S.	Lyndhurst	"
Wood and Downs	East Kew	"
Cayley, W. C.	Werribee	Ayrshire
Dookie Agricultural College	Dookie	"
Gorman, A. W.	Alexandra	"
Pettit, J.	Geelong	"
Dunbar Bros.	Carlsruhe	Friesian
Fox, A. W.	Mt. Violet, via Camperdown	"
Ferguson, J. N.	Glenormiston North	"
McGallaird, T. J.	Alberton West	"
Tweddle, J. T.	Sunbury	"

UNIFORM RULES IN ALL STATES.

At the Conference of Ministers for Agriculture in 1923, the Report of the Officers' Conference on Herd Testing, in Sydney, 27th and 28th March, 1923, was read. It was shown that the Conference was agreed on nine items on which there was a previous difference of practice in the different States, and that it disagreed on five items. The Report was referred to a Committee, comprising the Directors of Agriculture present, with a view to their endeavouring to arrive at full agreement, and to report to the Conference.

The Committee, later, submitted a Report, with the following recommendations, which were adopted:—

1. There could be no uniformity unless the system of herd testing in each State was controlled by the Department of Agriculture, and certificates issued by such Departments.

2. The official lactation period shall be 273 days, which may be extended to 365 days on request of the owner.

3. The lactation period to commence five days after calving.

4. All reference to commercial butter shall be dropped in all States, and records published in milk and butter-fat only.

5. When a breeder owns more than one herd on separate farms, each herd shall be considered and recorded as a separate herd.

6. Records of all cows shall be published—both those which attain to standard and those which fail to do so.

7. The standards upon which certificates shall be issued to be as follows:—

Junior 2-year-old	200 lb. butter-fat.
Senior 2-year-old	225 lb. butter-fat
Junior 3-year-old	250 lb. butter-fat
Senior 3-year-old	275 lb. butter-fat
Junior 4-year-old	300 lb. butter-fat
Senior 4-year-old	325 lb. butter-fat
Mature cows	350 lb. butter-fat

A junior animal in each class shall be one which is 2, 3, or 4 years of age, or over, on day of calving, but under such years, plus six months.

A senior animal in each class shall be one which is $2\frac{1}{2}$, $3\frac{1}{2}$, or $4\frac{1}{2}$ years of age, or over, on day of calving, but under such age, plus six months.

8. If a cow aborts her calf during a lactation period, she shall be withdrawn from the test.

9. Further minor agreements were reached regarding exemptions from testing on account of sickness, injury, &c., disqualifications, fees, averaging abnormal tests, supervision, &c.

10. That all cows in the herd shall be tested annually unless exempted by the Minister, on written application from the owner, stating exceptional circumstances, and endorsed by the Director of Agriculture, but in no case shall more than 50 per cent. of females in lactation be so exempted; further, that all cows must be tested at least once before reaching four (4) years, and at least once again before reaching eight (8) years.

11. The yield for the official record period shall be calculated as follows:—

The lactation period shall consist, in the case of the 273 days' records, of nine (9) sub-periods, covering respectively eight (8) sub-periods of 30 days, and one of 33 days; and, in the case of 365 days' record, of eleven sub-periods of 30 days, and one of 35 days.

The cows shall be tested once in each sub-period at approximately equal intervals of time.

The official yield shall be the sum of the yield in each sub-period.

The yield for each sub-period shall be calculated as follows:—

The record shall be the milk yielded over 24 hours, multiplied by the length of the sub-period.

The butter-fat yield shall be the amount of butter-fat, calculated by test of the 24 hours' milk yield, multiplied by the length of period.

12. That the testing officer shall see that all cows are milked out under his supervision at the milking prior to the official 24 hours' test commencing.

13. That the feeding of whole milk or cream to cows undergoing test be prohibited as being a wasteful practice.

14. (*a*) Testing shall be done by qualified officers appointed by the Department of Agriculture;

(*b*) The districts of testing officers shall be changed as often as possible;

(*c*) It shall be optional to test either on the farm or centrally.

Amendments of the Victorian rules, based on the above recommendations, are being dealt with, and will be published at an early date.

STANDARD COW PRIZES.

The following prizes were offered by the Government for the year ended 30th June, 1925. The prizes will be awarded through the Royal Agricultural Society:—

1. *Grand Champion Cow.*—under Herd Test Regulations.

A grand champion prize of £100 as a trophy or cash, for maintaining the position of annual champion for three years, not necessarily in succession. Not yet allotted.

2. *Annual Champion Cow*—under Herd Test Regulations.

A prize of £10, to be awarded to the cow which, during a lactation period terminating within the year ending on 30th June, 1925, gives the greatest amount of butter-fat under the herd testing regulations of this Department.

Won by **Poppy of Ben Kell**; owner, R. Ralston.

3. *Reserve Annual Champion*—under Herd Test Regulations.

A prize of £5 per annum to be awarded to the cow attaining second place under the herd testing regulations of the Department during the year ended 30th June.

Won by **Graceful Countess of Lesterfield**; owner, T. Harvey.

These prizes to be awarded conditionally upon the winning cow being exhibited at the next Royal Agricultural Show. In the event of the death of the winning cow prior to such Show, the owner to exhibit his next best cow.

No cow competing for any prize shall be milked more than twice a day, and must re-calve within fifteen months from her previous calving date.

4. *Best Herd*—under Herd Testing Regulations.

A first prize of £20 and a second prize of £10 to be awarded to the herds giving the greatest average returns under the herd testing regulations of this Department and complying with the following conditions:—

(1) Minimum number of cows (completing the test during the year) in a herd, 10.

(2) Such herd to average not less than 300 lb. of butter-fat. Handicaps to be allowed on the following scale:—

(*a*) In a herd of more than ten cows, each cow will receive an allowance equal to ½ lb. of butter-fat for every cow in the herd.

(*b*) Cows under three years of age when commencing the lactation will receive an allowance of 75 lb. of butter-fat each.

(*c*) Cows which commenced the lactation when between three and four years of age will receive an allowance of 50 lb. butter-fat each.

The prizes to be allotted for the year ended 30th June, 1925, and three cows of the winning herd are to be exhibited at the next Royal Agricultural Show, with placards setting out their respective butter-fat yields.

NOTE.—The Honorable the Minister of Agriculture has directed that the First and Second Prizes for Best Herd shall be duplicated for the season 1924-25.

The adoption of this course has become desirable because of misconceptions that have arisen as to the interpretation of the resolution adopted at the Inter-State Conference of Ministers of Agriculture relating to the testing of separate herds belonging to one owner.

HERD PRIZES.

Two First Prizes.

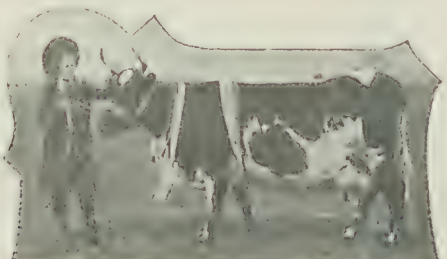
Class.	Flack and Sewell's Ardblair Friesian Herd.			J. Hutchinson and Sons Somerville Jersey Herd.		
	No.	Total Butter-fat.	Average Butter-fat.	No.	Total Butter-fat.	Average Butter-fat.
		lb.	lb.		lb.	lb.
Mature Cows	5	2,891·57	578·31	5	2,758·95	551·79
Second-calf Cows	3	1,395·74	465·25	4	1,687·87	421·97
Handicap	..	150·00	..	..	200·00	..
Heifers	3	1,223·88	407·96	1	341·22	341·22
Handicap	..	225·00	..	..	75·00	..
		5,886·19			5,063·04	
Herd allowance	..	60·50	..	..	..	..
Whole herd	11	5,946·69	540·61	10	5,063·04	506·30

Two Second Prizes.

Class.	Flack and Sewell's Road's End Friesian Herd.			T. Mesley's Warrenda Jersey Herd.		
	No.	Total Butter-fat.	Average Butter-fat.	No.	Total Butter-fat.	Average Butter-fat
		lb.	lb.		lb.	lb.
Mature Cows	5	2,508·67	501·73	5	2,238·44	447·69
Second-calf Cows	1	400·30	400·30	3	1,119·58	373·19
Handicap	..	50·00	..	..	150·00	..
Heifers	5	1,855·82	371·16	11	4,456·45	405·13
Handicap	..	375·00	..	..	825·00	..
		5,189·79			8,789·47	
Herd allowance	..	60·50	..	..	180·50	..
Whole herd	11	5,250.29	477.30	19	8,969.97	472.10

Averages in Detail of the Herds which Averaged Over 300 lb. Butter-fat per Cow.

Owner.	Breed.	Average Yield without any Allowance.						Average Herd Yield with all handicap allowances.
		Heifers.		Post Heifers.		Mature Cows.		
		No. in Herd.	Average Butter-fat.	No. in Herd.	Average Butter-fat.	No. in Herd.	Average Butter-fat.	
			lb.		lb.		lb.	lb.
Flack and Sewell (Ard-Blair Herd)	Friesian ..	3	407·96	3	465·25	5	578·31	540·61
J. Hutchinson and Sons	Jersey ..	1	341·22	4	421·97	5	551·79	506·30
Flack and Sewell (Roads End Herd)	Friesian ..	5	371·16	1	400·30	5	501·73	477·29
T. Mesley	Jersey ..	11	405·13	3	379·19	5	447·69	472·10
C. Gordon Lyon ..	,, ..	5	330·93	5	429·63	7	480·24	466·70
J. D. Read	,, ..	6	425·17	6	424·84	7	446·15	458·09
T. Harvey	,, ..	5	344·95	1	423·01	10	442·68	445·48
P. J. Maloney ..	,, ..	6	339·49	3	365·82	6	429·20	428·14
O. J. Syme	Friesian ..	5	340·73	..	..	7	420·39	424·45
R. Maher	Jersey ..	4	345·27	1	389·82	6	402·23	417·71
Leongatha High School	,, ..	4	364·74	2	285·41	4	429·97	414·97
Finn Bros.	,, ..	5	303·91	1	393·98	7	421·20	413·19
J. Anderson	,, ..	5	288·19	1	435·65	4	433·84	405·70
A. W. Jones and Son ..	,, ..	6	306·30	2	388·65	11	392·09	403·08
H. McGarvie	,, ..	10	325·54	6	339·36	14	358·28	393·58
F. Austin	,, ..	6	269·84	1	406·81	5	411·93	388·15
H. Luxton	,, ..	6	330·42	..	..	9	360·59	386·02
A. W. Jones and Son ..	Friesian ..	3	292·16	4	316·38	22	369·93	383·66
W. Woodmason ..	Jersey ..	6	287·03	..	..	7	389·80	383·48
A. A. Broad	,, ..	5	276·10	3	330·31	3	405·13	379·30
C. D. Lloyd	,, ..	6	245·18	3	376·36	9	384·22	378·90
W. H. Atkinson ..	Shorthorn ..	8	274·16	1	214·05	10	395·81	378·73
H. L. Webb	Ayrshire ..	7	300·68	1	288·38	3	369·78	376·18
C. Deverell	Jersey ..	7	294·98	1	185·15	3	412·74	374·88
E. A. Dennis	,, ..	4	276·72	3	369·34	10	354·82	373·97
R. Ralston	Ayrshire ..	3	256·70	1	269·03	7	370·04	360·45
Department of Agriculture	Red Poll ..	6	261·06	2	310·08	10	345·53	352·99
A. A. Richardson ..	Jersey ..	2	259·20	3	257·72	5	384·30	351·31
Mrs. E. Lennie ..	,, ..	4	240·79	1	216·79	9	357·34	346·00
G. Gange	Ayrshire ..	8	274·59	..	..	2	309·26	341·53
Evans Brothers ..	Red Poll ..	6	229·12	5	323·43	10	320·69	340·06
Miss S. L. Robinson ..	Jersey ..	7	264·47	4	310·69	7	299·92	337·80
Geelong Harbour Trust	Ayrshire ..	7	201·67	6	289·59	15	319·78	327·25
McFarlane Brothers ..	,, ..	6	258·88	1	323·88	6	315·37	334·92
N. Gange	,, ..	1	153·40	1	374·82	8	320·28	326·35
H. V. McKay	,, ..	4	210·45	4	300·12	7	313·50	323·79
Longerenong College ..	,, ..	3	258·88	2	250·87	8	315·12	323·76
H. W. D. Canobio ..	,, ..	4	213·38	1	325·46	6	322·10	320·19
W. Henderson ..	,, ..	26	230·87	24	202·64	32	273·61	318·70
Mrs. L. Orchard ..	Jersey ..	10	247·72	2	298·34	9	276·27	315·74
Callery Brothers ..	Ayrshire ..	5	247·51	2	263·12	3	304·56	315·25
Baillieu Brothers ..	Jersey ..	5	251·34	2	255·85	3	277·78	307·67



COWS IN ORDER OF MERIT.

MATURE COWS. (Over 5 Years at time of calving.) 350 lb. Standard.

Order of Merit	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
1	Dominion Iona ..	Flack and Sewell ..	Friesian	21,864	3·17	693·15	Woodcrest Jo
2	Poppy of Ben Kell ..	R. Ralston ..	Ayrshire	12,879	5·37	692·23	Girvan of Oakbank
3	Springfield de Kol ..	Flack and Sewell ..	Friesian	17,353	3·83	665·05	Rosevale Inka Sylvia Posch
4	Molly 6th of Banyule ..	C. G. Lyon ..	Jersey	12,497	4·91	613·36	Audrey's Lord Twylish
5	Graceful Countess of Lesterfield	T. Harvey ..	,,	10,410	5·83	606·95	Lesterfield Boy
6	Silvermine 18th of Banyule	C. G. Lyon ..	,,	11,443	5·30	606·50	Mabel's Chief
7	Bainfield No. 40 ..	Flack and Sewell ..	Friesian	17,131	3·52	602·72	Medbury Prince
8	Holland Lass 2nd of Berry	Flack and Sewell ..	,,	17,901	3·35	599·85	Sultan La Polka
9	Cherry of Willow Park..	W. K. Atkinson ..	Shorthorn	15,036	3·97	596·81	Havelock of Darbalara
10	Goldy of Strathbow ..	F. Raggatt ..	Jersey	9,786	5·87	574·26	Mac of Tarnpirr
11	Dominion Homestead Maggie	Flack and Sewell ..	Friesian	17,102	3·32	568·59	Longbeach Primrose League
12	Princess Royal of Springhurst	Finn Bros. ..	Jersey	10,201	5·51	562·67	Young Defiance
13	Beauty 4th of Somerville	J. Hutchinson and Sons	,,	10,880	5·15	560·15	Annette 2nd's Twylish of King's Vale
14	Ragtime of Warenda ..	T. Mesley ..	,,	8,459	6·57	555·84	Jessie's Handsome Boy
15	Wattle of Springhurst ..	P. J. Maloney ..	,,	11,720	4·71	552·48	Brighton Cub
16	Queenie of Ashby ..	Dickinson Bros. ..	Friesian	14,557	3·74	544·02	Pearl's Prince of Brundee
17	Creamy 3rd of Lesterfield	Gibson Bros. ..	Jersey	10,288	5·28	543·65	Lesterfield Boy
18	Pibroch	T. Mesley ..	,,	9,394	5·75	539·90	Skim of Dunalister
19	Beauty's Daffodil of Lesterfield	A. Fixter, junr. ..	,,	9,954	5·30	527·56	Lesterfield Boy
20	Phillis 2nd of Warenda..	P. Chirnside ..	,,	10,041	5·24	526·54	Jessie's Handsome Boy
21	Myrtle of Springhurst ..	R. J. Henry ..	,,	8,414	6·26	526·56	Investigator of Melrose
22	Bolobek Anne ..	O. J. Syme ..	Friesian	13,905	3·75	521·95	Rhoda Prince of Rubicon
23	Vixen of Tarnpirr ..	H. Cowling ..	Jersey	9,681	5·35	518·03	Amy's Choice of Tarnpirr
24	Dolly 4th of Glengowrie	Telford Bros. ..	Ayrshire	12,010	4·27	512·61	Bruce 2nd of Glengowrie
25	Rarity 11th of Melrose	H. Cowling ..	Jersey	9,753	5·25	512·17	Handsome Boy 5th of Melrose
26	Melilot of Springhurst ..	J. D. Read ..	,,	8,798	5·76	507·11	Petain of Springhurst
27	Beauty of Craigneil ..	A. W. Jones and Son	Friesian	14,764	3·43	506·35	Canterbury Statesman
28	Roycroft Inka Echo ..	A. W. Jones and Son	,,	14,403	3·49	503·02	Sir Pontiac Echo Het Loo
29	Moonbeam of Medburn Grove	C. Bamford ..	Ayrshire	12,404	4·03	499·95	Leo of Gleneira
30	Belle of Colac.. ..	F. Austin ..	Jersey	11,871	4·17	494·87	Handsome Progress
31	Alice of Woorayl ..	Leongatha High School	,,	8,853	5·52	488·93	Noble Empire
32	Lucy Grey of Colac ..	T. R. Findlay ..	,,	9,202	5·31	488·35	Lady Grey 4th's Fox
33	Bolobek Janet ..	J. Wills	Friesian	14,777	3·29	485·58	Rhoda Prince of Rubicon
34	Graceful Countess 2nd of Lesterfield	F. Austin ..	Jersey	7,671	6·33	485·14	Quality 6th's Son of Melrose
35	Maid's Princess 2nd of Clover Flat	F. Raggatt ..	,,	8,941	5·42	484·61	Prince Noreen
36	Lucerne of Springhurst	J. D. Read ..	,,	8,428	5·75	484·46	Young Defiance
37	Empress 2nd of Holmwood	T. Harvey ..	,,	8,569	5·64	483·19	Audrey's Lord Twylish
38	Amethyst of Greenwood	K. McGarvie ..	,,	8,107	5·93	480·69	Duke of Greenwood
39	Kirsty 7th of Jerseyholm	T. Harvey ..	,,	7,959	6·02	479·38	Venture's Hero
40	May Queen 2nd ..	A. W. Jones and Son	Friesian	12,094	3·95	478·42	Annette's Prince
41	Lily of Holly Green ..	H. L. Webb ..	Ayrshire	10,387	4·50	477·00	Rex of Oakbank
42	Cecilia of Woorayl ..	Leongatha High School	Jersey	8,410	5·60	470·95	Butter Boy
43	Burnside Korndyke Riverdale	O. J. Syme ..	Friesian	17,969	2·61	468·77	Sir Riverdale Echo Lyons
44	Galatea Fayne Segis ..	A. W. Jones and Son	,,	14,083	3·33	468·67	King Fayne Segis 2nd
45	Queen Elizabeth ..	Department of Agriculture,	Red Poll	11,196	4·17	466·50	Nicotine
46	Graceful Duchess 19th of Melrose	W. Woodmason ..	Jersey	7,227	6·45	466·15	Handsome Boy 5th of Melrose
47	Monavale Amethyst Paxton	Flack and Sewell ..	Friesian	11,760	3·96	465·62	Prince Pietje Paxton
48	Golden Noble Duchess	C. D. Lloyd ..	Jersey	7,869	5·91	465·27	Golden Fern's Noble
49	Fuchsia of Springhurst..	E. A. Dennis ..	,,	8,739	5·29	462·18	Attraction of Springhurst
50	Pearl of Willow Park ..	W. K. Atkinson ..	Shorthorn	12,198	3·78	460·96	Havelock of Darbalara
51	Roma 2nd of Hill Crest	A. A. Broad ..	Jersey	10,506	4·36	458·10	Bell Boy of Hill Crest
52	Welcome of Tarnpirr ..	Alston Estate ..	,,	7,518	6·09	458·00	First Choice of Melrose

MATURE COWS. (OVER 5 YEARS AT TIME OF CALVING.) 350 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
53	Peerless of Ferntree Vale	Gibson Bros. ..	Jersey	9,105	5·02	456·80	Linda 11th's Lad of King's Vale
54	Laura 12th of Melrose ..	R. H. Maher ..	,,	7,675	5·94	455·53	Golden Fern's Viscount
55	Regina of Tarnpirr ..	Alston Estate ..	,,	6,933	6·55	454·31	Amy's Choice of Tarnpirr
56	Lady Grey 1st of St. Albans	A. W. Jones and Son	,,	7,511	6·04	453·46	Garanties Antimony
57	Jubilee Cherry's Fawn	Finn Bros. ..	,,	7,203	6·29	453·07	Castor's Premier
58	Nictitana	Department of Agriculture	Red Poll	10,300	4·40	452·99	Nicotine
59	Pansy 4th of Ferntree Vale	Gibson Bros. ..	Jersey	8,344	5·42	452·44	Linda 15th's Twylish of King's Vale
60	Lily of Craigneil ..	A. W. Jones and Son	Friesian	10,498	4·31	452·01	Canterbury Statesman
61	Gingerbread of Glen Iris	C. D. Lloyd ..	Jersey	8,437	5·32	449·12	Mabel's Chief
62	Romany Girl 2nd of Tarnpirr	T. F. Trevaskis ..	,,	8,372	5·36	448·49	First Choice of Melrose
63	Dominion Fobes of Yarra Brae	Flack and Sewell ..	Friesian	12,446	3·59	446·89	Dominion Domino Dutch Boy
64	Music of Warenda ..	P. Chirnside ..	Jersey	8,286	5·38	445·89	Jessie's Handsome Boy
65	Midnight of Clover Flat	E. Day	,,	8,320	5·35	445·53	Prince Norcen
66	Foxglove 2nd of Tarnpirr	Mrs. D. Stark ..	,,	7,477	5·95	444·84	First Choice of Melrose
67	Dahlia of Springhurst ..	J. D. Read ..	,,	7,027	6·30	442·63	Petain of Springhurst
68	Antonette of Hill Crest	R. J. Henry ..	,,	8,064	5·48	441·93	Sir Antonio
69	Kyora Pansy 7th ..	F. Bidgood ..	,,	9,118	4·83	440·78	Young Defiance 2nd
70	Trethellas Jean ..	W. P. Rogen ..	,,	8,335	5·28	439·71	Centurius
71	Dominion Coringa ..	Department of Agriculture	Friesian	13,554	3·24	438·72	Woodcrest Jo
72	Beauty 2nd of Bonshaw	P. J. Maloney ..	Jersey	8,466	5·17	438·17	Laddie 2nd of Banyule
73	Rarity 11th of Melrose..	H. Cowling ..	,,	8,542	5·11	436·26	Handsome Boy 5th of Melrose
74	Romany Girl 2nd of Tarnpirr	T. F. Trevaskis ..	,,	8,698	5·00	434·85	First Choice of Melrose
75	Monavale Catriona Paxton	Flack and Sewell ..	Friesian	11,997	3·62	434·00	Prince Pietje Paxton
76	Stumpy 4th of Holmwood	Mrs. E. M. Lennie..	Jersey	9,591	4·52	433·94	Audrey's Lord Twylish
77	Sparkle 3rd of Carracoorte	W. Henderson ..	Ayrshire	9,919	4·37	433·37	Lord Dudley of Gowrie Park
78	Seaweed of Springhurst	Finn Bros. ..	Jersey	8,078	5·36	432·68	Investigator of Melrose
79	Roan Daisy 18th ..	W. K. Atkinson ..	Shorthorn	10,380	4·15	430·53	Poplar Vale Prince 9th
80	Nightingale 2nd of Raith	R. Goodman ..	Ayrshire	9,813	4·35	427·33	Duke of Melton Park
81	Graceful Duchess 15th of Melrose	A. A. Richardson ..	Jersey	6,624	6·45	426·91	Lesterfield Boy
82	Silvermine 14th of Banyule	C. G. Lyon ..	,,	9,064	4·71	426·49	Mabel's Chief
83	Sparkle 2nd of Jerseyholm	T. Harvey ..	,,	6,835	6·23	425·81	Venture's Hero
84	Kirsty 6th of Jerseyholm	T. Harvey ..	,,	7,206	5·90	425·40	Venture's Hero
85	Coleus of Springhurst ..	R. J. Henry ..	,,	6,689	6·39	425·25	Brighton Cub
86	Lassie Fowler 8th of Melrose	R. H. Maher ..	,,	6,625	6·41	424·42	Golden Fern's Viscount
87	Treasure of Medburn Grove	C. Bamford ..	Ayrshire	10,134	4·18	424·08	St. Elfred of Willow Vale
88	Blue Bell 2nd of Jerseyholm	T. Harvey ..	Jersey	7,571	5·57	423·39	Emperor
89	Dunalister Perree's Primrose	J. Hutchinson and Sons	,,	7,483	5·65	422·86	Perree's Duke
90	Nimitabel of Kameruka	T. F. Trevaskis ..	,,	9,265	4·56	422·42	Silver King
91	Primrose 2nd of Melrose	R. H. Maher ..	,,	7,416	5·69	422·32	Golden Fern's Viscount
92	Daisy 8th of Melrose ..	A. A. Richardson ..	,,	7,730	5·46	421·72	Handsome Boy 5th of Melrose.
93	Grevillea of Springhurst	H. Luxton ..	,,	7,551	5·56	419·69	Attraction of Springhurst
94	Coral of Willow Vale ..	Longerenong Agricultural College	Ayrshire	7,914	5·26	419·53	Tarbolton of Oakbank
95	Vanilla 11th of Melrose	W. Woodmason ..	Jersey	7,265	5·77	419·34	Handsome Boy 5th of Melrose
96	Daisy 6th of Jerseyholm	T. Harvey ..	,,	7,941	5·28	419·13	Emperor
97	Golden Fern of Glen Iris	C. D. Lloyd ..	,,	7,170	5·82	417·60	Mabel's Chief
98	Werribee Northwood Madeira 6th	P. Chirnside ..	,,	7,361	5·66	416·60	Northwood King
99	Idea of Tregorland ..	J. F. Tuckey ..	Ayrshire	8,161	5.11	416.28	Havelock of Gowrie Park
100	Mabel's Petal of Banyule	C. G. Lyon ..	Jersey	8,018	5.18	415.43	Mabel's Chief
101	Banksia of Springhurst	Mrs. I. Beard ..	,,	7,399	5·60	414·60	Bulwark of Springhurst
102	Gerty 3rd of Carracoorte	W. Henderson ..	Ayrshire	8,937	4·63	413·83	Victorius of Warrook
103	Lottie of Golden Vein ..	A. Wallace ..	,,	10,107	4·09	413·70	Anither of Oakbank
104	Starbright of Lynroy ..	Mrs. E. M. Lennie..	Jersey	8,009	5·16	413·66	Island Butter King
105	Science of Springhurst..	Finn Bros. ..	,,	7,902	5·22	412·65	Brighton Cub
106	Bolobek Rose.. ..	A. W. Jones and Son	Friesian	11,785	3·50	412·16	Colantha Pontiac
107	Jessie 11th of Ferntree Vale	J. Phillips ..	Jersey	9,679	4·25	411·64	Starbright Renard

MATURE COWS. (OVER 5 YEARS AT TIME OF CALVING.) 350 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
108	Gold Bell of Methven ..	C. Deverell ..	Jersey	8,796	4·67	410·69	Bloodshot of Tarnpirr
109	Flowing Vale Zillah 2nd	Evans Bros. ..	Red Poll	10,252	4·00	409·68	Redman
110	Defender's Favourite of Boorene	A. A. Broad ..	Jersey	8,029	5·10	409·37	Fox's Nonpariel of Boorene
111	Jane 2nd of Greenwood	K. McGarvie ..	,,	8,266	4·94	408·35	Grey Fox of St. Albans
112	Easter Daisy of Woodside	C. D. Lloyd ..	,,	7,644	5·32	406·96	Goldfinder
113	Linda of Medburn Grove	H. V. McKay ..	Ayrshire	10,657	3·81	406·46	Lord Harry of Medburn Grove
114	Sunset Star of Dunalister	Leongatha High School	Jersey	7,989	5·09	406·45	Lord Brighton of Dunalister
115	Marie of Tarnpirr ..	E. A. Dennis ..	,,	6,757	6·01	406·38	First Choice of Melrose
116	Rosey 32nd	Flack and Sewell ..	Friesian	11,228	3·62	405·91	Bolobek de Kol
117	Highland Fling ..	Warragul High School	Red Poll	10,069	4·03	405·78	Victoria Flight Commandre
118	Daffodil	J. T. O'Loughlin ..	,,	9,016	4·50	405·57	Cubata
119	Briar	Department of Agriculture	,,	9,056	4·47	404·63	Nicotine
120	Springfield White Posch	Flack and Sewell ..	Friesian	10,015	4·03	404·03	Rosevale Inka Sylvia Posch
121	Blue Bell of Jerseyholm	T. Harvey ..	Jersey	7,513	5·50	403·19	Venture's Hero
122	Golden Fern of Laringa	H. A. Petersen ..	,,	6,144	6·54	401·95	Sweet Pansy 2nd's Son of Melrose
123	Lady Grey 12th of St. Albans	A. W. Jones and Son	,,	6,492	6·14	398·49	Admiral
124	Silvermine 21st of Banyule	H. Luxton ..	,,	7,625	5·22	398·27	Audrey's Lord Twylish
125	Rose of Hill Crest ..	A. W. Jones and Son	,,	7,494	5·31	398·05	Black Prince of Mount Crawford
126	Melba of Greenwood ..	K. McGarvie ..	,,	8,872	4·47	396·21	Young Foxy Boy
127	Thelma of Meryula ..	A. W. Jones and Son	,,	8,193	4·83	395·98	Larkspur's Twylish 2nd
128	Merella 2nd of Yarra Brae	Mrs. E. M. Lennie	,,	6,459	6·12	395·54	Starbright Renard
129	Dream Girl of Woodside	C. D. Lloyd ..	,,	7,037	5·61	394·68	Goldfinder
130	Jenny Lind 13th of Melrose	R. H. Maher ..	,,	7,318	5·39	394·60	Golden Fern's Viscount
131	Rosebloom 2nd of Carracoorte	W. Henderson ..	Ayrshire	9,274	4·21	393·48	Victor 2nd of Carracoorte
132	Cardyline Inka de Kol..	A. W. Jones and Son	Friesian	11,050	3·55	392·68	Cordyline Colantha Hero
133	Waverley Lass 3rd of Melrose	J. A. Huffer ..	Jersey	6,913	5·67	392·30	Handsome Boy 5th of Melrose
134	Dream Girl of Woodside	C. D. Lloyd ..	,,	6,606	5·93	391·98	Goldfinder
135	Rose of Clarendon Eyre	A. A. Richardson ..	,,	6,945	5·64	391·35	Lotina's Larkspur's Twylish
136	Dutch Girl 2nd of Berry	Flack and Sewell ..	Friesian	10,605	3·69	391·09	Sultan La Polka
137	Spray of Oakbank ..	Longerenong Agricultural College	Ayrshire	9,142	4·26	389·23	Linguist of Oakbank
138	Bunty 3rd of Carracoorte	W. Henderson ..	,,	8,464	4·59	388·70	Lord Dudley of Gowrie Park
139	Brownie 4th of Carracoorte	W. Henderson ..	,,	8,749	4·43	387·26	Dahlia's Duke of Gleneira
140	Jubilee Azalia Winks ..	Miss B. B. Reid ..	Jersey	6,423	6·03	387·15	Goddington Winks 6th
141	Lady Betty of Ellimatta	H. Dettmann ..	,,	7,525	5·12	385·51	Prince's Lady's Twylish of Fairview
142	Dunalister Perree's Tissue 2nd	D. Peter	,,	5,883	6·55	385·01	Perree's Duke
143	Collingwood Beauty ..	Department of Agriculture	,,	6,180	6·23	385·02	Lady's Fox of Collingwood
144	Daisy 5th	S. T. Algie ..	Shorthorn	10,308	3·73	384·20	Duke of Wallace
145	Preston Princess ..	C. S. Walker ..	Jersey	7,918	4·85	384·03	Bostock of Tarnpirr
146	Annie G. of Tarnpirr ..	Alston Estate ..	,,	6,426	5·96	383·07	First Choice of Melrose
147	Jonquil of Springhurst	J. D. Read ..	,,	6,762	5·65	382·15	Attraction of Springhurst
148	Minerva's Balm 2nd of Carracoorte	W. Henderson ..	Ayrshire	9,051	4·22	382·05	Minerva's Jamie of Warrook
149	Vanity of Clarendon Eyre	Finn Bros. ..	Jersey	7,190	5·30	381·03	Lotina's Larkspur's Twilish
150	Queen of Wollingurry ..	A. Joshua ..	,,	7,006	5·60	380·40	Soprano's Mystifier of Wargabburra
151	Buttercup 12th of Ferntree Vale	Gibson Bros. ..	,,	7,453	5·09	379·27	Starbright Renard
152	Daffodil	A. Wallace ..	Ayrshire	9,429	4·01	377·80	Roy of Eccleshield
153	Merella 2nd of Yarra Brae	Mrs. E. M. Lennie..	Jersey	6,050	6·24	377·33	Starbright Renard
154	Fawn of Sunnyside ..	J. Pettit	Ayrshire	7,599	4·83	376·88	Young Standard Bearer
155	Vida of Burnside ..	J. G. Lobb ..	,,	8,800	4·28	376·75	Ventry of Seafield
156	Buttercup of Bonshaw	P. J. Maloney ..	Jersey	7,198	5·23	376·55	The Pilot of Tarnpirr
157	Orange Blossom of Tarnpirr	Alston Estate ..	,,	7,389	5·09	375·80	My Queen's Choice of Tarnpirr
158	Cutty Sark	Department of Agriculture	Red Poll	8,681	4·32	375·71	Belligerent
159	Claribelle of Greenwood	K. McGarvie ..	Jersey	9,430	3·98	375·69	Balm's Prince
160	Minuet of Banyule ..	C. Deverell ..	,,	6,450	5·82	375·68	Mabel's Chief

MATURE COWS. (OVER 5 YEARS AT TIME OF CALVING.) 350 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
161	Peerless 20th of Melrose	R. H. Maher ..	Jersey	6,231	5·99	373·43	Golden Fern's Viscount
162	Preston Polly ..	C. S. Walker ..	,,	7,972	4·68	372·75	Acacia King
163	Shadow of Luscombe ..	Mrs. I. Beard ..	,,	7,129	5·22	371·93	Skim of Dunalister
164	Renard Lily	H. Dettmann ..	,,	7,977	5·25	371·66	Starbright Renard
165	Oronoco	Warragul High School	Red Poll	8,782	4·22	370·91	Honingham Alake
166	Rosebud of Tarnpirr ..	A. L. N. Walter ..	Jersey	6,399	5·69	370·17	Morocco's Carnation's Fox
167	Bud 2nd of View Point	H. D. W. Canobio..	Ayrshire	9,331	3·96	369·55	Glen Elgin's Ben
168	Good Luck of Glenora ..	Cockbill Bros. ..	,,	8,547	4·31	368·11	Good Lad of Roxburgh
169	Noorat Grey Girl ..	Mrs. A. Black ..	Jersey	7,315	5·03	367·85	Obelisk
170	Chaffinch of Banyule ..	A. Joshua ..	,,	6,771	5·43	367·77	Lord Silvermine 8th of Banyule
171	Bingle of Ilford ..	R. J. Henry ..	,,	6,498	5·66	367·70	Jack Horner
172	Hygeia of Sparrovale ..	Geelong Harbour Trust	Ayrshire	8,442	4·34	366·76	Luminous of Sparrovale
173	Lady Mac of Medburn Grove	H. V. McKay ..	,,	8,066	4·54	366·37	McAlister of Gowrie Park
174	Bolobek Anabell ..	O. J. Syme ..	Friesian	10,674	3·34	366·21	Indulge Johanna Lad
175	Duchess of Willow Park	W. K. Atkinson ..	Shorthorn	9,624	3·80	366·11	Havelock of Darbalara
176	Dolly Brown of Inverleigh	A. H. Schier ..	Ayrshire	8,830	4·15	366·01	Index of Balvormie
177	Kirsty 8th of Jerseyholm	T. Harvey ..	Jersey	7,342	4·96	365·86	Emperor
178	Preston Beauty ..	C. S. Walker ..	,,	8,469	4·32	365·73	Acacia King
179	Blanche Rose 9th ..	W. K. Atkinson ..	Shorthorn	9,912	3·69	365·53	Poplar Vale Prince 9th
180	Valda's Belle of Somerville	H. Luxton ..	Jersey	6,693	5·45	364·77	Daphne's Prince of St. John
181	Bell of St. Albans ..	F. Austin ..	,,	7,776	4·69	364·75	Sweet Fox 2nd of St. Alban's
182	Rose 2nd of Taringa ..	K. McGarvie ..	,,	7,609	4·79	364·60	Golden Spark
183	Heather Belle of Ayrbrae	McFarlane Bros. ..	Ayrshire	8,585	4·22	362·12	Harmonist of Ellerslie
184	Blanche of Willow Park	W. K. Atkinson ..	Shorthorn	9,208	3·93	361·98	Havelock of Darbalara
185	Fuchsia of Clematis ..	H. Cowling ..	Jersey	6,618	5·42	360·50	Nightshade of Melrose
186	Jessie 24th of Melrose ..	W. Woodmason ..	,,	7,041	5·12	360·42	Golden Fern's Viscount
187	Primrose 2nd of Bonshaw	Mrs. E. M. Lennie	,,	6,270	5·73	359·25	The Pilot of Tarnpirr
188	Countess of Willow Park	W. K. Atkinson ..	Shorthorn	8,658	4·15	359·20	Havelock of Darbalara
189	Buttercup 2nd of Carracoorte	N. Gange ..	Ayrshire	7,953	4·51	358·41	Lord Dudley of Gowrie Park
190	Dunalister Garantie ..	Clyne Bros. ..	Jersey	6,544	5·46	357·22	Fox's Lotina's Twylish
191	Romneya of Springhurst	J. D. Read ..	,,	6,791	5·26	357·01	Petain of Springhurst
192	Boronia of Sparrovale ..	Geelong Harbour Trust	Ayrshire	8,028	4·44	356·72	Jamie of Sparrovale
193	Milkmaid of Staghorn ..	F. Bidgood ..	Jersey	6,323	5·63	356·28	Favourite's Noble
194	Daffodil Mercena ..	A. W. Jones and Son	Friesian	11,341	3·14	356·17	King Mercena
195	Viola 2nd of Carracoorte	W. Henderson ..	Ayrshire	8,060	4·40	354·98	Lord Dudley of Gowrie Park
196	Lady May of Ferndale	W. A. Sandles ..	Jersey	7,314	4·85	354·84	Lord Grey of St. Albans
197	La Reine of Tarnpirr ..	F. Austin ..	,,	6,076	5·83	354·28	Christmas' Choice of Tarnpirr
198	Mona of Hill Crest ..	Leongatha High School	,,	8,226	4·30	353·55	Black Prince of Mount Crawford
199	Winnie of Kelvin Grove	N. Gange ..	Ayrshire	7,632	4·62	352·68	Model of Seafield
200	Butter Queen 2nd of Meryula	A. W. Jones and Son	Jersey	6,801	5·17	351·92	Meryula
201	Lorikeet of Banyule ..	C. G. Lyon ..	,,	7,477	4·71	351·86	Audrey's Lord Twylish
202	Joy of Tarnpirr ..	T. F. Trevaskis ..	,,	6,391	5·50	351·77	My Queen's Choice of Tarnpirr
203	Dainty Maid of Ben Kell	R. Ralston ..	Ayrshire	7,850	4·47	351·16	Marvel of Willow Vale
204	Dunalister Perree's Attractive	D. Peter	Jersey	5,991	5·84	349·81	Perree's Duke
205	Jessie 16th of Melrose ..	Miss S. L. Robinson	,,	6,311	5·54	349·33	Lesterfield Boy
206	Lucy of King's Vale ..	J. Anderson, junr...	,,	5,966	5·85	348·86	Lucy's Noble of Oaklands
207	Jennie de Kol ..	O. J. Syme ..	Friesian	9,725	3·70	348·33	Duplicate Posch
208	Princess of Grangelea ..	A. A. Broad ..	Jersey	7,066	4·92	347·92	Kalimnas Fox
209	May of Clover Flat ..	J. E. Handbury and Sons	,,	6,509	5·34	347·53	Prince Noreen
210	Mountain Princess of Langley Park	Callery Bros. ..	Ayrshire	8,596	4·04	347·45	Bonnie's Chief of Victoria Bank
211	Cora of Burnside ..	Cockbill Bros. ..	,,	8,222	4·22	346·81	Gregor of Oakbank
212	Curiosity of Holmwood	Finn Bros. ..	Jersey	6,123	5·66	346·78	Pearl's Prince of Holmwood
213	Dominion Woodnymph	Colac High School	Friesian	11,072	3·12	345·74	Woodcrest Jo
214	Rita of Linden ..	F. W. Beischer ..	Jersey	6,674	5·18	345·72	The Chief of Linden
215	Mayflower of Sparrovale	Geelong Harbour Trust	Ayrshire	7,818	4·42	345·32	Jamie of Sparrovale
216	Sarah of Glen Alvie ..	G. Gange ..	,,	7,199	4·79	345·05	Triumph of Glencira
217	Gem of the Glen ..	H. Luxton ..	Jersey	5,877	5·85	343·86	Retford Oaklands
218	Petal of Roseleigh ..	N. Gange ..	Ayrshire	9,310	3·69	343·22	Burleigh of Gowrie Park

MATURE COWS. (OVER 5 YEARS AT TIME OF CALVING.) 350 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
219	Daphne of Welbourne ..	R. H. Maher ..	Jersey	6,266	5·48	343·09	Young Premier of Welbourne
220	Flowing Vale Dewprop	Evans Bros. ..	Red Poll	7,847	4·37	342·70	Bellum Victor
221	Waituki Princess Abigail	A. W. Jones and Son	Friesian	11,362	3·01	341·85	Royal Prince Pietertje de Kol
222	Lady 2nd of Bonshaw..	T. F. Trevaskis ..	Jersey	7,111	4·81	341·69	Laddie 2nd of Banyule
223	Lily of Ferntree Vale ..	H. Luxton ..	,,	6,549	5·21	341·00	Audrey's Lord Twylish
224	Bunty 3rd of Carracoorte	W. Henderson ..	Ayrshire	7,217	4·72	340·93	Lord Dudley of Gowrie Park
225	Flower 13th of Melrose..	E. A. Dennis ..	Jersey	4,936	6·90	340·45	Handsome Boy 5th of Melrose
226	Amelia's Lady of Waterloo Farm	K. McGarvie ..	,,	6,490	5·24	339·88	Admiral
227	Tonga	Department of Agriculture	Red Poll	8,871	3·82	339·41	Honingham Archbishop
228	Pearl 9th of Melrose ..	E. A. Dennis ..	Jersey	5,181	6·54	338·68	Handsome Boy 5th of Melrose
229	Pride of Wattle Bank ..	A. Kirby ..	Ayrshire	8,298	4·07	338·01	Brownie of Gowrie Park
230	Dunalister Noble Myrtle	D. Peter	Jersey	6,523	5·18	337·78	Dunalister Noble
231	Bonnie 2nd of Tarnpirr	A. L. N. Walter ..	,,	5,219	6·47	337·62	Royal Rose's Choice of Tarnpirr
232	Golden Dancer of Woodside	C. D. Lloyd ..	,,	6,982	4·81	335·94	Goldfinder
233	Bolobek May ..	Dunbar Bros. ..	Friesian	10,107	3·31	334·81	Indulge Johanna Lad
234	Flowing Vale Zillah 2nd	Evans Bros. ..	Red Poll	7,908	4·23	334·27	Redman
235	Dunalister Noble Czarina	D. Peter	Jersey	6,481	5·15	333·55	Dunalister Noble
236	Tongala Queenie ..	L. L. Russell ..	Friesian	5,816	5·72	332·90	
237	Royal Sun Ray ..	E. A. Dennis ..	Jersey	6,938	4·78	331·34	Peerless Lord Twylish
238	Queenie of Willow Park	W. K. Atkinson ..	Shorthorn	8,218	4·03	331·10	Havelock of Darbalara
239	Plumstead Pearl	T. H. Payne ..	Red Poll	7,601	4·35	330·90	Plumstead Pearl
240	Tulip Flower	A. W. Jones and Son	Friesian	10,763	3·07	330·72	Canterbury Statesman
241	Ashlyn 25th	Flack and Sewell ..	,,	9,335	3·53	329·85	Black and White King of Ashlyn
242	Flowing Vale Janet 2nd	Evans Bros. ..	Red Poll	7,612	4·31	327·89	Dinkum Astrologer
243	Werribee Starbright 8th	P. Chirnside ..	Jersey	6,676	4·90	326·88	Island Butter King
244	Duchess of Glencairn ..	A. W. Gorman ..	Ayrshire	7,168	4·56	326·64	Gleneira's Imperial
245	Balm of Carracoorte ..	N. Gange ..	,,	8,356	3·91	326·57	Victorious of Warrook
246	Rye Bread of Glen Iris..	C. D. Lloyd ..	Jersey	7,056	4·59	323·96	Mabel's Chief
247	Mistletoe 3rd of Tarnpirr	A. Joshua ..	,,	5,548	5·84	323·73	Christmas Choice of Tarnpirr
248	Lucy of Staghorn ..	F. Bidgood ..	,,	6,188	5·21	322·27	Favourite's Noble of Kyora
249	Ideal of Willow Vale ..	R. Ralston ..	Ayrshire	8,266	3·89	321·72	Marvel of Willow Vale
250	Sweet Briar of Hill Crest	Miss S. L. Robinson	Jersey	6,343	5·07	321·61	Starbright Renard
251	Dina	L. L. Russell ..	Friesian	8,680	3·69	320·13	Tom
252	Bertha of Winslade ..	C. Lees	Ayrshire	6,856	4·66	319·18	Bowler of Seafield
253	Canary 11th of Kings Vale	Mrs. F. M. Akehurst	Jersey	6,102	5·19	316·95	Carnation's Fancy Northwood King
254	Adora of Fernhill ..	Telford Bros. ..	Ayrshire	7,685	4·12	316·26	Glen Elgin's Jan
255	Sweet Pansy 5th of Melrose	G. Rowe ..	Jersey	4,944	6·39	315·91	Handsome Boy 5th of Melrose
256	Olive of Cathcart ..	A. W. Gorman ..	Ayrshire	8,301	3·75	311·20	Lavendo of Glencairn
257	Silverine of Inverleigh ..	A. H. Schier ..	,,	7,050	4·11	311·08	Marker of Balvormie
258	Ornitho	Department of Agriculture	Red Poll	6,273	4·95	310·57	Nicotine
259	Jubilee Wynda Wildflower	A. T. Corben ..	,,	5,565	5·57	310·19	Twylish Madeira's Fox 2nd of Werribee
260	Pearl of Friesland Park	O. J. Syme ..	Friesian	8,962	3·46	309·91	King of Dominoes
261	Modesty of Inverleigh ..	A. H. Schier ..	Ayrshire	7,420	4·18	309·88	Major of Gowrie Park
262	Balm of Carracoorte ..	N. Gange ..	,,	7,573	4·09	309·58	Victorious of Warrook
263	Daisy 3rd of Holmwood	A. A. Richardson ..	Jersey	5,988	5·16	309·26	Audrey's Lord Twylish
264	Rita of Linden ..	F. W. Boischer ..	,,	5,943	5·19	308·63	The Chief of Linden
265	Gipsy of Sparrovale ..	Geelong Harbour Trust	Ayrshire	6,628	4·65	308·28	Star of Sparrovale
266	Thelma 2nd of Carracoorte	W. Henderson ..	,,	8,369	3·68	307·58	Fritz of Rythdale
267	Beauty of Quarry Hills	H. D. W. Canobio..	,,	6,603	4·65	307·27	Jimmie of View Point
268	Myrtle 2nd of Jersey Vale	P. J. Ducat ..	Jersey	6,083	5·03	305·83	Golden Twylish
269	Meryette	Evans Bros. ..	Red Poll	7,156	4·27	305·73	Bellum Victor
270	Mulberry of Ayrbrae ..	McFarlane Bros. ..	Ayrshire	7,610	4·01	305·35	Lancelot of Gleneira
271	Queen Mary of Glencira	McFarlane Bros. ..	,,	8,251	3·71	305·33	Beau of Glencira
272	Violet of Hill Crest ..	A. Joshua ..	Jersey	5,917	5·13	303·54	Financial King of Kyora
273	Myrtle of Sparrovale ..	Geelong Harbour Trust	Ayrshire	7,113	4·26	303·30	Scottish Chief of Sparrovale
274	Scotia	Mrs. M. E. Carroll..	Red Poll	7,458	4·07	303·12	Nicotine
275	Flowing Vale Violet 4th	Evans Bros. ..	,,	7,623	3·97	302·79	Bolcum
276	Annetta of View Point	H. D. W. Canobio..	Ayrshire	7,924	3·82	302·77	Jimmie of View Point
277	Pearl of Hill Crest ..	Mrs. E. M. Lonnie..	Jersey	6,260	4·84	302·70	Noble of Balwyn
278	Daisy of Sparrovale ..	Geelong Harbour Trust	Ayrshire	6,145	4·93	302·65	Scottish King of Gowrie Park

MATURE COWS. (OVER 5 YEARS AT TIME OF CALVING.) 350 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
279	Ada of Wattlebank ..	A. Kirby ..	Ayrshire	7,024	4·30	302·22	Brownie of Gowrie Park
280	Tuilp of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	5,815	5·18	301·43	Golden Twylish
281	Junette of Hill Crest ..	A. W. Jones and Son	,,	5,550	5·43	301·22	White Bell's Champion of Kyora
282	Gowan of Sparrovale ..	Geelong Harbour Trust	Ayrshire	6,337	4·71	298·77	Jamie of Sparrovale
283	Pardon of Ben Kell ..	R. Ralston ..	,,	7,959	3·75	298·72	Girvan of Oakbank
284	Woodbine of Seafield ..	J. G. Lobb ..	,,	6,156	4·82	296·92	Prince of Seafield
285	Flossie of Glencira ..	W. Henderson ..	,,	6,965	4·25	296·08	Triumph of Glencira
286	Flowing Vale Bloom ..	Evans Bros. ..	Red Poll	7,715	3·82	291·35	Dinkum Astrologer
287	Barbara of Greenwood	K. McGarvie ..	Jersey	7,010	4·20	294·28	Noble of Greenwood
288	Primrose of Wethersdane	H. D. W. Canobio..	Ayrshire	7,752	3·77	293·21	His Majesty of Wethersdane
289	Hazel of Cathcart ..	A. W. Gorman ..	,,	6,924	4·22	292·46	Scottie of Cathcart
290	Brownie 3rd of Carracoorte	W. Henderson ..	,,	6,558	4·45	292·25	Lord Dudley of Gowrie Park
291	Gladys of Sparrovale ..	Geelong Harbour Trust	,,	6,636	4·40	291·85	Scottish King of Gowrie Park
292	St. Albans Helen ..	A. W. Jones and Son	Friesian	9,444	3·07	289·97	Burdett's Prince
293	Holland Lass 4th of Berry	T. J. McGalliard ..	,,	8,110	3·57	289·93	Sultan La Polka
294	Santa Clara	J. F. Keating ..	Red Poll	6,929	4·17	288·62	Nicotine
355	Laodicea	Department of Agriculture	,,	7,316	3·94	287·94	Belligerent
296	Phoebe of Ashby ..	Dickinson Bros. ..	Friesian	8,136	3·54	287·94	Pearl's Prince of Brundee
297	Pansy of Grahamsvale	Mrs. L. Orchard ..	Jersey	5,445	5·28	287·32	Golden Twylish
298	Miss Muller 3rd of Berry	Red Cross Farm ..	Friesian	8,749	3·28	287·02	Marquis of Newport of Berry
299	Elena of Springfield ..	M. and W. A. Francis	Ayrshire	6,558	4·38	287·00	Donald of Wethersdane
300	Maisie of Sparrovale ..	Geelong Harbour Trust	,,	6,891	4·16	286·89	Stuart of Gowrie Park
301	Gratis	T. H. Payne ..	Red Poll	6,916	4·14	286·31	Acton Ajax
302	Blossom of Sparrovale	Geelong Harbour Trust	Ayrshire	6,498	4·40	286·11	Stuart of Gowrie Park
303	Tragedy of Linden ..	F. W. Beischer ..	Jersey	5,669	5·03	285·41	The Chief of Linden
304	Mignonette of Brookfield	W. S. Richardson ..	,,	5,268	5·41	285·02	Rarity's Fawn Duke of Glen Iris
305	Daffodil of Jerseyvale ..	Mrs. L. Orchard ..	,,	5,304	5·36	284·17	Golden Twylish
306	Jessie of Welbourne ..	G. Rowe ..	,,	6,517	4·36	284·01	Young Premier of Welbourne
307	Dutch Girl of Berry ..	Flack and Sewell ..	Friesian	7,779	3·64	283·14	Duke of Amsterdam
308	Lady Virtue 2nd of Wilson House	A. H. Schier ..	Ayrshire	7,639	3·70	282·68	Ada's Douglas 2nd of Wilson House
309	Petunia of Glencairn ..	N. Gange ..	,,	7,336	3·84	281·99	Peacemaker of Glencairn
310	Gipsy Girl of Sparrovale	Geelong Harbour Trust	,,	6,369	4·43	281·89	Scottish King of Gowrie Park
311	Maud of Hill Crest ..	W. S. Richardson ..	Jersey	6,939	4·02	279·14	Starbright Renard
312	Annette 6th of King's Vale	Baillieu Bros. ..	,,	5,587	5·00	279·09	Carnation's Fancy Northwood King
313	Lily of Jersey Vale ..	Mrs. L. Orchard ..	,,	5,615	4·97	278·90	Golden Twylish
314	Buttermaid 2nd ..	A. W. Jones and Son	Friesian	7,677	3·61	277·38	King Mercena
315	Sparkle of Glencira ..	A. Kirby ..	Ayrshire	7,342	3·76	276·40	Kia Ora of Haydowns
316	Boronia 2nd of Pine Grove	A. H. Schier ..	,,	5,882	4·67	274·58	Glen Keith of Pine Grove
317	Duchess of Cathcart ..	A. W. Gorman ..	,,	6,912	3·96	273·89	Gallant Lad of Glencairn
318	Guitana of Kilmarnock	G. Gange ..	,,	6,829	4·00	273·48	Laura's Laird of Gowrie Park
319	May of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	5,622	4·86	273·40	Golden Twylish
320	Ivy of Longerenong ..	Dookie Agricultural College	Ayrshire	6,378	4·28	273·01	Tarbolton of Oakbank
321	Rye Cake of Glen Iris..	C. D. Lloyd ..	Jersey	4,912	5·55	272·50	Cream Chief of Glen Iris
322	Victoria Dutchmaid ..	Department of Agriculture	Friesian	6,955	3·92	272·42	Dominion Domino Dutch Boy
323	Mayflower 2nd of Carracoorte	W. Henderson ..	Ayrshire	6,537	4·14	270·77	Lord Dudley of Gowrie Park
324	Noorat Beauty ..	Mrs. A. Black ..	Jersey	5,638	4·80	270·35	Obelisk
325	Pearl 3rd of Carracoorte	W. Henderson ..	Ayrshire	6,125	4·41	270·30	Bruce of Warrook
326	Pearl of Carracoorte ..	W. Henderson ..	,,	6,678	4·03	269·13	Fritz of Rythdale
327	Pomahaka Snowflake ..	J. Wills ..	Friesian	7,720	3·47	268·24	Springfield Champion
328	Kyora Defender's May 3rd	Miss S. L. Robinson	Jersey	4,926	5·42	267·23	Lotina's Defender of Kyora
329	Mirth of Struan Park ..	D. Kilby ..	Ayrshire	6,435	4·14	266·26	General of Gowrie Park
330	Winnie of Kelvin Grove	N. Gange ..	,,	6,647	4·00	266·18	Model of Seafield
331	Mystery 14th's Beauty of Lesterfield	Baillieu Bros. ..	Jersey	5,592	4·75	265·89	Magnet's Maitland of Dunallister
332	Lady Em of Evergreen	G. Vallence ..	Ayrshire	7,069	3·74	264·69	General Gordon
333	Fine Quality of Glencira	A. H. Schier ..	,,	4,797	5·51	264·34	Kia Ora of Haydowns
334	Kipsie of Tregorland ..	J. F. Tuckey ..	,,	6,336	4·13	261·37	Havelock of Gowrie Park
335	Viola of Sparrovale ..	Geelong Harbour Trust	,,	5,699	4·57	260·44	Scottish King of Gowrie Park

MATURE COWS. (OVER 5 YEARS AT TIME OF CALVING.) 350 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
336	Violet of Rock Lee ..	Mrs. F. M. Akehurst	Jersey	5,031	5·11	259·86	Carnation's Fancy Northwood King
337	Bell of Craigneil ..	A. W. Jones and Son	Friesian	7,792	3·31	257·87	Sir Kol of Canada
338	Starette of Fernhill ..	Longerenong Agricultutal College	Ayrshire	5,904	4·34	256·45	Glen Elgin's Ian
339	Walulu Abbekerk Artis of Corfield	R. Ferguson ..	Friesian	9,041	2·83	255·77	De Kol Artis Rooker
340	Lella of Warrook ..	Cockbill Bros. ..	Ayrshire	5,539	4·61	255·57	Minerva's Jamie of Warrook
341	My Hope of Kameruka	E. A. Dennis ..	Jersey	4,969	5·10	254·27	Twylish's Pride
342	Pet of Greenwood ..	K. McGarvie ..	,,	5,420	4·69	254·27	Young Foxy Boy
343	Berry of Warrook ..	W. Henderson ..	Ayrshire	5,037	5·04	253·96	Beryl's Conservative
344	Lilian of Willow Vale ..	W. Meredith ..	,,	5,758	4·41	253·67	Tarbolton of Oakbank
345	Tulip 5th of Bonshaw ..	Mrs. E. M. Lennie ..	Jersey	5,665	4·47	253·16	Laddie 2nd of Banyule
346	Rosette of Hill Crest ..	G. Rowe ..	,,	5,495	4·59	251·96	Bell Boy of Hill Crest
347	Bright Jewel of St. Albans	R. Faragher ..	,,	5,069	4·95	251·07	Silver Fox of Luscombe
348	Pastime of Tarnpirr ..	E. A. Dennis ..	,,	5,008	5·00	250·49	Sport
349	Holland :Lass of Berry	Red Cross Farm ..	Friesian	7,387	3·39	250·26	Cavalier of Berry
350	Moss Vale Jean ..	L. L. Russell ..	,,	6,659	3·75	249·59	
351	Belle A	R. Faragher ..	Jersey	4,655	5·36	249·40	Bell Boy of Hill Crest
352	Mabel of Simpson House	A. H. Schier ..	Ayrshire	6,686	3·72	248·91	Annie's Luminous
353	Pearl of Glengowrie ..	C. Lees	,,	5,472	4·54	248·32	Bruce 2nd of Glengowrie
354	Tottie of Warrook ..	Cockbill Bros. ..	,,	5,955	4·16	247·92	Triumph of Warrook
355	Frossie of Carracoorte ..	W. Henderson ..	,,	5,915	4·19	247·66	Bruin of Gleneira
356	Blossom of Woodside ..	F. W. Beischer ..	Jersey	4,103	6·01	246·66	Benedictine's Nobleman
357	Lady Marge of Ferndale	A. E. Batson ..	,,	4,334	5·65	244·74	May's Larkspur's Lord Twylish
358	Sweet Briar of Glen Avon	W. Henderson ..	Ayrshire	5,280	4·61	243·47	Maxim of Oakbank
359	Gertie	Evans Bros. ..	Red Poll	6,511	3·72	242·29	Acton Dewstone
360	Pendant	Warragul High School	,,	5,734	4·22	242·02	Longford Major
361	Lily of Wattle Bank ..	A. Kirby ..	Ayrshire	5,349	4·50	240·74	Brownie of Gowrie Park
362	Pearl of Friesland Park	Dunbar Bros. ..	Friesian	7,349	3·27	240·35	King of Domino's
363	Modesty of Yalart ..	C. Lees	Ayrshire	6,422	3·58	239·59	Jock of Gowan Bank
364	Daisy Bell of Retreat ..	W. J. Muhlebach ..	,,	5,523	4·26	235·30	Musician of Willow Vale
365	Kitty 2nd of Somerset ..	A. E. Batson ..	Jersey	3,990	5·88	234·82	Lady Grey 2nd's Golden Spark
366	Bettina of Taraganda ..	H. Luxton ..	,,	4,734	4·92	232·78	Betty's Twylish
367	Berylan of Riccarton ..	C. D. Lucas ..	Ayrshire	6,197	3·72	230·68	White Prince of Gleneira
368	St. Albans Mary Ann ..	A. W. Jones and Son	Friesian	5,982	3·83	229·08	Pearl's Prince of Brundee
369	Margaret's Fancy of Somerset	A. E. Batson ..	Jersey	4,504	5·05	227·53	Admiral
370	Carnation Belle of Kooravatha	J. Huffer	,,	4,330	5·24	226·86	Bell Boy of Hill Crest
371	Bracken of Struan Park	D. Kilby ..	Ayrshire	5,738	3·94	226·26	General of Gowrie Park
372	Flossie of Gleneira ..	W. Henderson ..	,,	5,806	3·89	226·14	Triumph of Gleneira
373	Laranaga	Warragul High School	Red Poll	5,599	4·00	223·94	Nicotine
374	Tarrawarra No. 60 ..	F. J. McGalliard ..	Friesian	6,612	3·37	223·14	Count Togo
375	Cambria	Mrs. M. E. Carroll ..	Red Poll	4,951	4·46	221·03	Nicotine
376	Karong Rose 4th ..	J. Baker ..	,,	5,404	4·03	217·90	Disraeli
377	Marion of Willow Vale	Longerenong Agricultural College	Ayrshire	5,532	3·93	217·05	Tarbolton of Oakbank
378	Lady Grey 6th of St. Albans	A. E. Batson ..	Jersey	3,581	6·06	216·95	Black Fox of St. Albans
379	Alice of Grahamsvale ..	Mrs. L. Orchard ..	,,	4,422	4·82	213·28	Fox's Laddie 3rd
380	Lassie 2nd of Somerset ..	A. E. Batson ..	,,	4,454	4·73	211·76	Lady Grey 2nd's Golden Spark
381	Pearl 3rd of Carracoorte	W. Henderson ..	Ayrshire	5,031	4·19	210·99	Bruce of Warrook
382	Vanity of Burnside ..	R. Goodman ..	,,	4,659	4·41	205·47	Gregor of Oakbank
383	Betsy of Warrook ..	W. Henderson ..	,,	4,266	4·75	198·49	Frederick
384	Duchess of Hillcrest ..	M. and W. A. Francis	,,	4,934	3·98	196·16	Prince of Mapleton
385	Nora 3rd of Gleneira ..	C. Lees	,,	4,586	4·26	195·26	Jock of Gowan Bank
386	Young Madeira of La Trobe	Sale High School ..	,,	4,826	3·93	189·61	Norm of Mapleton
387	Kyora Merry Mike's Mayflower	Miss S. L. Robinson	Jersey	3,777	4·92	184·95	Merry Mike
388	Buttercup of Carracoorte	A. Kirby ..	Ayrshire	4,841	3·68	178·29	Fritz of Rythdale
389	Telma	J. T. O'Loughlin ..	Red Poll	5,041	3·52	177·63	Honingham Astrologie
390	Young Gladys of La Trobe	Sale High School ..	Ayrshire	4,138	4·01	167·11	Norm of Mapleton
391	Diana of Craigneil ..	E. T. Jones ..	Friesian	4,807	3·43	165·19	King Mercena
392	Lucy of Glen Avon ..	W. Henderson ..	Ayrshire	3,935	4·12	162·08	Maxim of Oakbank
393	Daisy of Inverleigh ..	A. H. Schier ..	,,	4,067	3·90	158·23	Director of Midbranch
394	Purity 5th of Melrose ..	R. Purnell ..	Jersey	2,709	5·73	155·38	Golden Fern's Viscount
395	Grey Girl	Mrs. A. Black ..	,,	3,178	4·86	154·40	Golden Plum
396	Anaca 4th of Seaview ..	W. Henderson ..	Ayrshire	3,457	3·96	137·04	Ronald of Fernhill

MATURE COWS. (OVER 5 YEARS AT TIME OF CALVING.) 350 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
397	Affinity of Oakbank ..	W. Meredith ..	Ayrshire	3,248	4·21	136·82	Gallant of Oakbank
398	Mona of Inverleigh ..	A. H. Schier ..	,,	3,381	3·98	134·74	Rival of Balvormie
399	Brownie 2nd of Carracoorte	W. Henderson ..	,,	2,833	4·50	127·38	Minvera's Jamie of Warrook
400	Woodburn Duchess ..	J. F. Keating ..	Red Poll	3,297	3·80	125·18	Red Prince 2nd A
401	Buttercup 3rd of Bonshaw	H. Dettmann .	Jersey	1,988	5·39	107·14	Laddie 2nd of Banyule
402	Pretty Maid of Welbourne	G. Rowe .	,,	2,460	4·12	99·27	Kyabram Milklad

SENIOR 4 YEAR OLD. (Between 4½ and 5 Years.) 325 lb. Standard.

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
1	Babs of Somerville ..	J. Hutchinson and Sons	Jersey	15,799	5·34	843·27	Daphne's Prince of St. John
2	Westmere Oakwood Duchess	J. Plattfuss ..	Friesian	19,017	3·37	638·43	Dominion Oakwood
3	Westmere Oakwood Piebe	J. Plattfuss ..	,,	21,786	2·92	635·71	Dominion Oakwood
4	Eco-Sylv Belle ..	O. J. Syme ..	,,	16,586	3·73	625·57	Champion Echo Sylvia Ponteac
5	Northwood Queen of Somerville	J. Hutchinson and Sons	Jersey	10,275	4·83	496·24	Werribee Madeira Northwood King
6	Verbena 4th of Brookfield	J. A. Huffer ..	,,	7,740	6·21	480·28	Rarity's Fawn Duke of Melrose
7	Tiny of Meadowvale ..	W. H. Atherton ..	,,	7,816	5·89	460·89	Mythic's Choice of Tarnpirr
8	Burnbank Mercedes Maggie	Flack and Sewell ..	Friesian	13,160	3·46	455·74	Dominion Gay Mercedes
9	Morocco's Pansy of Staghorn	F. Bidgood ..	Jersey	7,582	5·94	450·13	Morocco Bound
10	Jubilee Wattle ..	Miss B. B. Reid ..	,,	7,969	5·59	445·37	Bundoora Jubilee Fox
11	Blanchette 5th of St. Albans	A. W. Jones and Son	,,	7,782	5·59	435·28	Brighton King 8th
12	Westmere Inka Pietertje	A. W. Jones and Son	Friesian	11,016	3·85	424·07	Pietertje Netherland Paul
13	Sir Fancy's Larkspur of Staghorn	F. Bidgood ..	Jersey	8,079	5·21	421·26	Sir Fancy Madeira of Werribee
14	Ruby Rose of Tarnpirr	J. Anderson, jun. ..	,,	6,595	6·33	417·63	Eminent V.C.
15	Beauty of Belgonia ..	P. J. Maloney ..	,,	8,331	5·00	416·77	Butterlad of Bonshaw
16	Bloomfield Mutual Lassie	A. W. Jones and Son	Friesian	11,697	3·52	411·56	Dominion Wooderest Piebe Mercedes
17	Butterlass of Belgonia ..	P. J. Maloney ..	Jersey	8,857	4·60	407·43	Laddie 2nd of Banyule
18	Sunbeam of Somerville	H. Luxton ..	,,	7,264	5·58	405·47	Daphne's Prince of St. John
19	Bluebell 3rd of Jerseyholm	T. Harvey ..	,,	6,605	5·97	394·51	Emperor
20	Modest of Greenwood ..	K. McGarvie ..	,,	8,174	4·81	393·30	Golden Hero of Greenwood
21	Lady Grey 16th of St. Albans	H. Luxton ..	,,	7,090	5·51	390·94	Brighton King 8th
22	Lady Betty of Ellimatta	H. Dettmann ..	,,	7,477	5·07	379·41	Prince's Lady Twylish of Fairview
23	Segis Hengerveld of Lydholme	Red Cross Farm ..	Friesian	10,617	3·57	378·80	Cluny Hengerveld of Lydholme
24	Maid 2nd of Linden ..	A. W. Jones and Son	Jersey	6,622	5·72	378·51	The Chief of Linden
25	Adelea of Woodstock Grange	H. D. W. Canobio..	Ayrshire	8,544	4·42	377·38	Combine of Glengowrie
26	Laurel of Longerenong..	Longerenong Agricultural College	,,	8,658	4.32	373·85	Gaylad of Sparrowvale
27	Springfield No. 5 ..	T. J. McGalliard ..	Friesian	9,600	3·88	372·36	Rosevale Inka Sylvia Posch
28	Stumpy of Clarendon Eyre	A. A. Richardson ..	Jersey	8,414	4·42	372·28	Lotima's Larkspur's Twylish
29	Jessie Fobes Homestead of Oakview	Flack and Sewell ..	Friesian	10,175	3·65	370·95	Dominion Dutch Lad
30	Easter Daisy of Austral Park	Gibson Bros. ..	Jersey	5,999	6·25	369·53	Soprano's Mystiller of Warragburra
31	Clover of Saranac ..	R. Faragher ..	,,	5,993	6·15	368·30	Lord Richmond
32	Boree of Springhurst ..	J. D. Read ..	,,	7,637	4·81	367·42	Attraction of Springhurst
33	Bertha of Medburn Grove	C. Bamford ..	Ayrshire	8,868	4·13	366·54	St. Elfred of Willowvale
34	Madge of Greenwood	K. McGarvie ..	Jersey	8,615	4·23	364·60	Golden Hero of Greenwood
35	Buttercup 15th of Ferntree Vale	Gibson Bros. ..	,,	6,796	5·26	357·41	Starbright Renard

SENIOR 4 YEAR OLD. (BETWEEN 4½ AND 5 YEARS.) 325 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
36	Pansy 6th of Ferntree Vale	E. A. Dennis ..	Jersey	6,990	5·04	352·55	Starbright Renard
37	Tea Rose of Tarnpirr ..	Mrs. E. M. Lennie..	,,	5,637	6·25	352·44	Treasure of Tarnpirr
38	Flower 14th of Melrose..	A. L. N. Walter ..	,,	6,000	5·86	351·77	Golden Fern's Viscount
39	Carmen of Hill Crest ..	W. H. Axford ..	,,	6,261	5·61	351·54	Bell Boy of Hill Crest
40	Lady Lene of Elouera ..	H. Luxton ..	,,	7,260	4·80	348·52	Lord Richmond
41	Lassie 5th of Clover Flat	J. E. Handbury and Sons	,,	6,585	5·27	347·13	Curious King
42	Moonlight of Medburn Grove	C. Bamford ..	Ayrshire	9,276	3·74	346·80	Lord Harry of Medburn Grove
43	Beltana	Department of Agriculture	Red Poll	7,794	4·44	346·11	Belligerent
44	Fuchsia of St. Albans ..	A. W. Jones and Son	Jersey	6,170	5·61	345·93	Brighton King 8th
45	Queen of Scots 2nd of Banyule	A. H. Schier ..	Ayrshire	7,111	4·82	343·05	Rational of Oakbank
46	Minnie 2nd of Greenwood	K. McGarvie ..	Jersey	6,786	5·05	342·98	Marquis of Greenwood
47	Gaiety Girl 11th of Melrose	Simpson and Charlton	,,	6,045	5·57	336·86	Latest Style of Melrose
48	Flower of Manuka ..	Miss C. E. McClelland	,,	7,297	4·56	332·50	Liberty's Twylish of Clarendon Eyre
49	Laurie 2nd of Ferntree Vale	R. Purnell ..	,,	7,042	4·72	332·20	Starbright Renard
50	St. Albans May Queen	A. W. Jones and Son	Friesian	9,677	3·38	326·85	Burdett's Prince
51	Rose of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	6,369	5·04	321·24	Golden Twylish
52	Fairy Queen 4th of Linden	J. J. Baker ..	,,	6,501	4·92	319·80	The Chief of Linden
53	Queenie 2nd of Willow Park	W. K. Atkinson ..	Shorthorn	8,511	3·71	316·15	Havelock of Darbalara
54	Begonia of Ben Kell ..	R. Ralston ..	Ayrshire	7,308	4·29	313·68	Marvel of Willowvale
55	Isla of Ben Kell ..	H. V. McKay ..	,,	7,470	4·16	310·83	Marvel of Willowvale
56	Bright Jewel 2nd of St. Albans	R. Faragher ..	Jersey	6,007	5·03	302·28	Brighton King 8th
57	Ashlyn 63rd	T. J. McGalliard ..	Friesian	7,135	4·11	293·55	Royal King Champion
58	Wild Tulip 2nd ..	T. Jones	,,	7,380	3·97	292·63	Canterbury Statesman
59	Dot of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	5,217	5·54	288·95	Choice 2nd of Tarnpirr
60	Three Castles ..	Department of Agriculture	Red Poll	6,570	4·36	286·77	Longford Major
61	Beanie of Sparrovale ..	Geelong Harbour Trust	Ayrshire	7,930	3·61	286·53	Jamie of Sparrovale
62	Victoria Coriander ..	Department of Agriculture	Friesian	8,418	3·39	285·07	Dominion Domino Dutch Boy
63	Woorndoo	Warragul High School	Red Poll	5,893	4·80	283·09	Belligerent
64	Joan's de Kol of Brundee	Flack and Sewell ..	Friesian	9,281	3·01	279·49	Fannie King of Rock
65	Silver Daisy of Terara ..	A. Joshua ..	Jersey	3,955	7·02	277·67	Dasiy Boy of Nowra
66	Virginia of Longerenong	Longerenong Agricultural College	Ayrshire	6,855	4·05	277·32	Gay Lad of Sparrovale
67	Dolores 2nd of Banyule	A. H. Schier ..	,,	5,565	4·96	276·35	Rational of Oakbank
68	Dulcie of Evergreen ..	G. Valiance ..	,,	6,815	4·05	275·80	Luminous of Drayton
69	Charity of Rosehill ..	R. O. Hogg ..	Jersey	5,544	4·93	273·17	Noble Boy 2nd of Rocklands
70	Linda of Tuerong ..	G. Esler	,,	5,964	4·52	269·45	Bonnie Lad of King's Vale
71	Jessie de Kol Kroons of Oakview	Red Cross Farm ..	Friesian	7,445	3·61	268·57	Dominion Domino Dutch Lad
72	Lady Loule of Glen Avon	Cockbill Bros. ..	Ayrshire	5,271	5·07	267·17	Warlock of Fernhill
73	Ashlyn 74th	Flack and Sewell ..	Friesian	7,653	3·34	255·23	Royal King Champion
74	Kyora Velveteen ..	Miss S. L. Robinson	Jersey	4,570	5·58	255·11	Daisy's Morocco Fox of Werribee
75	Empress of Langley Park	Callery Bros. ..	Ayrshire	6,486	3·87	251·18	Playaway of Willow Vale
76	Laura 13th of Melrose ..	W. Woodmason ..	Jersey	4,303	5·82	250·36	Golden Fern's Viscount
77	St. Alban's Helen ..	A. W. Jones and Son	Friesian	8,633	2·89	249·91	Burdett's Prince
78	Honey of Wanalta ..	C. W. W. Macauley	Jersey	4,976	4·94	245·62	Noble Voice of Banyule
79	Woodburn Tartar ..	T. H. Payne ..	Red Poll	5,585	4·39	245·39	Honingham Astrologic
80	Daisy of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	4,419	5·38	237·78	Cadice 2nd of Tarnpirr
81	Lady Golden of Brucedale	A. Joshua ..	,,	3,496	6·39	223·44	Island Butter King
82	Bloomfield Canada Model	E. T. Jones ..	Friesian	5,655	3·90	220·33	Lakeside of Canada
83	Karong Rose 4th ..	J. Baker	Red Poll	5,170	4·17	215·45	Disraeli
84	Cissie of Wattlebank ..	A. Kirby ..	Ayrshire	5,413	3·92	212·41	Woolfair'd of Oakbank
85	Oatlands Maggie ..	J. H. Thorburn ..	,,	4,995	4·07	203·28	Malster of Seafield
86	Rhea Reid of Clematis	F. Raggatt ..	Jersey	3,828	4·63	177·17	Lotina's Larkspur's Twylish
87	Victoria Bellona ..	Department of Agriculture	Friesian	4,186	3·37	141·00	Dominion Domino Dutch Boy
88	Wogglette 2nd ..	C. Lees	Ayrshire	3,165	3·14	99·36	Bakewell of Glencira
89	Gain of Roxburgh ..	A. H. Schier ..	,,	1,700	4·39	74·72	Dalgety of Simpson House

JUNIOR 4 YEAR OLD. (Between 4 and 4½ Years.) 300 lb. Standard.

Order of Merit.	Name.	Owner.	Breed.	Milk	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
1	Halecote Oakleaf Fobes	Smith and Sons ..	Friesian	20,199	3·18	642·10	Dominion Oakdale
2	Burnbank Mercedes Violet	Flack and Sewell ..	,,	18,667	3·21	599·56	Dominion Gay Mercedes
3	Cosmos of Springhurst	R. J. Henry ..	Jersey	9,279	6·28	582·76	Arcadia's Choice of Tarnpirr
4	Springfield No. 9 ..	L. L. Russell ..	Friesian	14,227	4·01	574·74	Rosevale Inka Sylvia Posch
5	Rosevale Jessie Posch ..	Flack and Sewell ..	,,	17,259	3·20	552·16	Rosevale Korndyke Sylvia Posch
6	Molly 8th of Banyule ..	C. G. Lyon ..	Jersey	9,886	5·44	538·14	Milkmaid's Chief of Banyule
7	Canary 12th of King's Vale	J. Anderson, jun. ..	,,	10,078	5·23	527·19	Bonny Lad of King's Vale
8	Miss Guy of Tarnpirr ..	F. Trevaskis ..	,,	8,515	5·96	507·81	Mythics Choice of Tarnpirr
9	Patricia of Warenda ..	W. H. Axford ..	,,	8,443	5·91	498·94	Jessie's Handsome Boy
10	Garenne 4th of Warenda	L. W. Thompson ..	,,	8,901	5·57	495·73	Jessie's Handsome Boy
11	Alsyke 2nd of Springhurst	J. D. Read ..	,,	7,296	6·68	487·48	Arcadia's Choice of Tarnpirr
12	Boronia of Sparrovale ..	Geelong Harbour Trust	Ayrshire	10,709	4·53	484·95	Jamie of Sparrovale
13	Meadow Sweet of Warenda	L. W. Thompson ..	Jersey	7,645	6·33	483·88	Jessie's Handsome Boy
14	Pansy of Rosemont ..	T. Mesley ..	,,	8,631	5·56	479·54	Carrie 5th's Noble of Melrose
15	Linda 52nd of King's Vale	J. Anderson, jun. ..	,,	8,493	5·44	461·68	Bonny Lad of King's Vale
16	Flower 15th of Melrose..	W. Woodmason ..	,,	7,468	6·14	458·16	Golden Fern's Viscount
17	Mystery 22nd of Melrose	A. W. Jones and Son	,,	7,118	6·43	457·55	Jessie 15th's Handsome Boy of Melrose
18	Fern of Springhurst ..	C. Deverell ..	,,	8,701	5·19	451·84	Engineer of Springhurst
19	Cilanthus of Springhurst	J. D. Read ..	,,	6,921	6·53	451·83	Arcadia's Choice of Tarnpirr
20	Beauty 5th of Somerville	J. Hutchinson and Sons	,,	9,938	4·39	436·43	Daphne's Prince of St. John
21	Cantata of Banyule ..	C. G. Lyon ..	,,	7,642	5·69	434·86	Audrey's Lord Twylish
22	Ashlyn 71st	Flack and Sewell ..	Friesian	10,795	3·90	420·72	Royal King Champion
23	Marise of Tarnpirr ..	E. A. Dennis ..	Jersey	8,184	5·03	411·31	Eminent V.C.
24	Keepsake of Warenda ..	P. Chirnside ..	,,	6,600	6·23	411·19	Jessie's Handsome Boy
25	Machree of Banyule ..	C. G. Lyon ..	,,	6,842	5·99	409·88	Audrey's Lord Twylish
26	Isla of Ben Kell ..	H. V. McKay ..	Ayrshire	7,470	4·16	408·38	Marvel of Willow Vale
27	Gertie of Greenwood ..	K. McGarvie ..	Jersey	8,035	4·99	401·07	Young Foxy Boy
28	Ipomea of Springhurst	E. A. Dennis ..	,,	6,195	6·46	400·21	Arcadia's Choice of Tarnpirr
29	Rarity of Meadowvale ..	W. H. Atherton ..	,,	6,050	6·57	397·28	Handsome Lad of Woodville
30	Lady Grey 15th of St. Albans	A. W. Jones and Son	,,	7,766	5·11	396·57	Brighton King 8th
31	Zoe 6th of Melrose ..	W. Woodmason ..	,,	6,478	6·09	394·64	Golden Fern's Viscount
32	Mill Brown Duchess ..	Miss S. L. Robinson	,,	6,580	5·85	384·98	Brown Duke of Glen Iris
33	Lady of Belgonia ..	P. J. Maloney ..	,,	7,459	5·15	383·78	Lion of Bonshaw
34	Handsome Girl 10th of Melrose	W. Woodmason ..	,,	6,129	6·19	379·56	Golden Fern's Viscount
35	Ransome Lass 2nd ..	A. W. Jones and Son	Friesian	10,949	3·44	376·66	Canterbury Statesman
36	Lady Grey 18th of St. Albans	R. Purnell ..	Jersey	7,606	4·94	375·97	Brighton King 8th
37	Model of Holly Green ..	H. L. Webb ..	Ayrshire	9,281	4·04	375·22	Maxwell of Glencira
38	Gaiety of Craigneil ..	A. W. Jones and Son	Friesian	10,471	3·55	372·03	Neil Mercena
39	Pansy of Roseleigh ..	N. Gange ..	Ayrshire	8,191	4·54	372·62	Renown of Roseleigh
40	Lady Monica 12th of King's Vale	Mrs. Archibald and Sons	Jersey	6,024	6·16	371·13	Jessemia's Imperial 5th of King's Vale
41	Gold Point 2nd of Banyule	A. H. Schier ..	Ayrshire	7,472	4·96	370·70	Rational of Oakbank
42	Princess of Willow Park	W. K. Atkinson ..	Shorthorn	9,796	3·77	369·69	Havelock of Darbalara
43	Beryl of Craigneil ..	A. W. Jones and Son	Friesian	11,157	3·29	367·48	Canterbury Statesman
44	Burnbank Woodcrest Fayne	Flack and Sewell ..	,,	11,673	3·13	365·22	Dominion Woodcrest Piebe Mercedes
45	Peggy Pride of Warenda	T. Mesley ..	Jersey	5,402	6·75	364·38	Choirmaster of Warenda
46	Buttercup 2nd of Avalon	F. Austin ..	,,	6,367	5·67	360·92	Brighton King 8th
47	Blossom 5th of Melrose	Finn Bros. ..	,,	6,247	5·76	359·52	Golden Fern's Viscount
48	Lady Betsy of Ferndale	W. A. Sandles ..	,,	6,266	5·62	352·28	Lord Grey of St. Albans
49	Rose of Langley Park ..	Callery Bros. ..	Ayrshire	8,827	3·98	351·06	Playaway of Willowvale
50	Lucy 3rd of Carracoorte	W. Henderson ..	,,	7,514	4·66	350·48	Lord Dudley of Gowrie Park
51	Beeswing of Medburn Grove	Dookie Agricultural College	,,	8,859	3·87	342·76	Lord Harry of Medburn Grove
52	Nancy of Holbrook ..	A. E. Ellis ..	Jersey	6,477	5·28	341·94	Skim of Dunalister
53	Daisy 8th	S. H. Ebery ..	Shorthorn	7,898	4·26	336·56	Signet of Willow Park
54	Janice of Sparrovale ..	Geelong Harbour Trust	Ayrshire	7,708	4·36	336·26	Jamie of Sparrovale
55	Kyora Twinkle ..	Miss S. L. Robinson	Jersey	6,942	4·84	336·19	Daisy's Morocco Fox of Werribee
56	Jubilee Lily	G. Esler	,,	5,957	5·57	331·86	Twylish Maderia's Fox 2nd of Werribee
57	Show Girl of Tarnpirr ..	Mrs. E. M. Lennie..	,,	5,740	5·72	328·03	Linda's Record 4th of King's Vale
58	Primrose of Ayrbrae ..	McFarlane Bros. ..	Ayrshire	7,101	4·62	327·01	Harmonist of Ellerslie
59	De Luxe	Evans Bros. ..	Red Poll	7,215	4·49	323·74	Bellum Victor

JUNIOR 4 YEAR OLD. (BETWEEN 4 AND 4½ YEARS.) 300 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
60	Flowing Vale Flower 4th	Evans Bros. ..	Red Poll	7,950	4·20	323·44	Dinkum Astrologer
61	Daisy Brown of Inverleigh	A. H. Schier ..	Ayrshire	7,382	4·31	318·35	Warwick of Sparrovale
62	Winnie of Ben Kell ..	R. Ralston ..	,,	7,497	4·20	315·17	Marvel of Willow Vale
63	Maggie of Longerenong	Longerenong Agricultural College	,,	6,892	4·56	314·56	Gay Lad of Sparrovale
64	Blue Lass of Linden ..	J. J. Baker ..	Jersey	6,271	5·01	314·43	The Chief of Linden
65	St. Albans Daisy ..	A. W. Jones and Son	Friesian	8,818	3·56	313·57	St. Alban's May King
66	Modest of Cathcart ..	A. W. Gorman ..	Ayrshire	6,858	4·56	312·76	Lavendo of Glencairn
67	Fair Nell of Greenwood	K. McGarvie ..	Jersey	6,157	4·99	306·52	Young Foxy Boy
68	Sparkle 3rd of Carracoorte	W. Henderson ..	Ayrshire	6,516	4·69	305·64	Lord Dudley of Gowrie Park
69	Vanilla 15th of Melrose	L. W. Thompson ..	Jersey	5,295	5·71	302·08	Golden Fern's Viscount
70	Bolobek Agnes ..	O. J. Syme ..	Friesian	9,372	3·22	301·94	Rhoda Prince of Rubicon
71	Daisy 14th of Melrose ..	T. Mesley ..	Jersey	4,937	6·05	298·79	Golden Fern's Viscount
72	Pleasure of Ben Kell ..	R. Ralston ..	Ayrshire	6,921	4·30	297·62	Alert of Ben Kell
73	Beryl of Ayrbrae ..	McFarlane Bros. ..	,,	6,985	4·25	296·60	Harmonist of Ellerslie
74	Mulberry 2nd of Ayrbrae	McFarlane Bros. ..	,,	7,029	4·19	294·87	Harmonist of Ellerslie
75	Venie of Greenwood ..	K. McGarvie ..	Jersey	6,628	4·43	293·41	Young Foxy Boy
76	Dimple of Craigneil ..	L. L. Russell ..	Friesian	9,064	3·23	292·83	King Mercena
77	Canary of Tuerong ..	Baillieu Bros. ..	Jersey	4,946	5·83	288·37	Quality's 6th Son of Melrose
78	Burnbank Sir Ormsby's Canary	Flack and Sewell ..	Friesian	8,400	3·43	288·32	Sir Ormsby Colantha Banostine
79	Merline of Inverleigh ..	A. H. Schier ..	Ayrshire	5,548	5·10	283·09	Major of Gowrie Park
80	Boronia of Woodstock Grange	H. D. W. Canobio..	,,	6,562	4·30	282·40	Combine of Glengowrie
81	Bell of Boorene ..	S. Earle	Jersey	5,587	5·04	281·32	Noble Direct of Boorene
82	Springfield No. 8 ..	J. Wills	Friesian	10,567	2·66	280·92	Rosevale Inka Sylvia Posch
83	Carnation of Ferntree Vale	J. Phillips ..	Jersey	4,951	5·43	268·61	Jessie's Handsome Boy
84	Melba of Holly Green ..	H. L. Webb ..	Ayrshire	5,972	4·31	257·12	Maxwell of Gleneira
85	Grace of Roseleigh ..	H. V. McKay ..	,,	6,555	3·89	255·10	Burleigh of Gowrie Park
86	Ashlyn 56th	Flack and Sewell ..	Friesian	6,733	3·62	243·73	Royal King Champion
87	Thelma 5th of Carracoorte	W. Henderson ..	Ayrshire	5,701	4·26	242·95	Victor 2nd of Carracoorte
88	Sweet Briar of Carracoorte	W. Henderson ..	,,	5,045	4·58	231·32	Problem of Willowvale
89	Fairy Bell of Rochdale ..	E. J. Moore ..	Jersey	4,385	5·17	226·84	May's King of Rochdale
90	Berry 2nd of Carracoorte	W. Henderson ..	Ayrshire	5,245	4·30	225·42	Problem of Willow Vale
91	Virtue of Ayrbrae ..	H. V. McKay ..	,,	5,255	4·29	225·33	Kiltie of Oakbank
92	Lady Doris of Ben Kell	H. V. McKay ..	,,	5,082	4·37	222·04	Marvel of Willow Vale
93	Daphne of Somerset ..	A. E. Batson ..	Jersey	4,015	5·52	221·60	Lord Silvermine 8th of Banyule
94	Fennella 5th of Carracoorte	W. Henderson ..	Ayrshire	5,010	4·28	214·58	Victor 2nd of Carracoorte
95	Canary of Rock Lea ..	Mrs. F. M. Akehurst	Jersey	4,110	5·01	205·93	Bonny Lad of King's Vale
96	Filpail 6th of Carracoorte	W. Henderson ..	Ayrshire	4,400	4·59	201·75	Victor 2nd of Carracoorte
97	Rose of Hillcrest ..	M. and W. A. Francis	,,	4,500	4·42	199·12	Victor of Warrook
98	Bettsie of Inverleigh ..	A. H. Schier ..	,,	4,530	4·21	190·82	Warwick of Sparrovale
99	Betsy of 8th Carracoorte	W. Henderson ..	,,	3,978	4·72	187·96	Lord Dudley of Gowrie Park
100	Betsy 9th of Carracoorte	W. Henderson ..	,,	4,440	4·22	187·37	Problem of Willow Vale
101	Nancy of Somerset ..	A. E. Batson ..	Jersey	3,333	5·61	187·00	Lord Silvermine 8th of Banyule
102	Samaria	Department of Agriculture	Red Poll	4,367	4·21	184·06	Highlyer
103	Duke's Spark of Glen Iris	S. S. Cameron ..	Jersey	2,967	5·98	177·62	Perree's Duke
104	Noorat Mignonette ..	Mrs. A. Black ..	,,	3,074	4·82	148·23	Milklad of Banyule
105	Dunallster Mannikin's Czarina	J. A. Huffer ..	,,	2,303	6·16	141·86	Mannikin of Glen Iris

SENIOR 3 YEAR OLD. (Between 3½ and 4 Years.) 275 lb. Standard.

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
1	Rosevale Rosie Abbekerk	Flack and Sewell ..	Friesian	17,914	3·14	562·73	Rosevale Korndyke Sylvia Posch
2	Tulip 2nd of Springhurst	J. D. Read ..	Jersey	9,536	5·43	517·34	Attraction of Springhurst
3	Princess Valda of Somerville	J. Hutchinson and Sons	,,	9,138	5·42	495·06	M.A.T. of Banyule
4	Vanilla 17th of Melrose	H. Cowling ..	,,	8,565	5·62	481·29	Golden Fern's Viscount
5	Maitland's Petal of Elouera	C. G. Lyon ..	,,	8,015	5·19	446·98	Audrey Lord Twylish

SENIOR 3 YEAR OLD. (BETWEEN 3½ AND 4 YEARS.) 275 LB. STANDARD—*continued.*

Order of Merit	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
6	Ruby Rose of Tarnpirr	J. Anderson, junr...	Jersey	8,079	5·39	435·65	Eminent V.C.
7	Rarity 13th of Melrose..	E. A. Dennis ..	,,	7,291	5·82	424·70	Golden Fern's Viscount
8	Lady Marge 2nd of Jerseyholm	T. Harvey ..	,,	7,599	5·57	423·01	Emperor
9	Victoria Beautous ..	Department of Agriculture	,,	6,022	6·84	412·13	Mariner of Wynna
10	Flowing Vale Zorah ..	Evans Bros. ..	Red Poll	8,919	4·61	410·95	Dinkum Astrologer
11	Rosella 10th of King's Vale	J. Hutchinson and Sons	Jersey	6,294	6·51	409·51	Jessemia's Imperial 5th of King's Vale
12	Pansy of Timberton ..	F. Austin ..	,,	6,517	6·24	406·81	Rumour of Tarnpirr
13	Maid 3rd of Linden ..	C. G. Lyon ..	,,	6,612	6·11	404·08	Chief of Linden
14	Hawthorn 8th of Banyule	C. G. Lyon ..	,,	7,189	5·57	400·23	Audrey's Lord Twylish
15	Henley Moore Oakdale..	A. W. Jones and Son	Friesian	10,460	3·77	394·76	Dominion Oakdale
16	Alice of Comely Banks..	Finn Bros. ..	Jersey	7,671	5·14	393·98	Northwood Financier of Meridale
17	Jennie of Lerderderg ..	J. Wills	Friesian	11,529	3·42	393·80	Bolobek Archie
18	Cream Nut of Glen Iris..	C. D. Lloyd ..	Jersey	6,726	5·80	389·83	Perree's Duke
19	Beauty of Belgonia ..	P. J. Maloney ..	,,	7,444	5·22	388·57	Butterlad of Bonshaw
20	Canary 4th of Lesterfield	L. W. Thompson ..	,,	6,562	5·91	388·01	Quality 6th's Son of Melrose
21	Gepps Wendy ..	Warragul High School	Red Poll	10,569	3·62	382·19	Warragul
22	Balm 5th of Carracoorte	N. Gange ..	Ayrshire	8,652	4·33	374·82	Heather Jock of Invergordon
23	Jubilee Wallflower ..	W. P. Rogen ..	Jersey	7,209	5·17	373·00	Milkmaid's Chief of Banyule
24	Wattle Bloom of Bellaire	W. H. Atherton ..	,,	7,177	5·16	370·41	Lord Richmond
25	Bonnie of Belgonia ..	P. J. Maloney ..	,,	6,972	5·28	368·15	Butterlad of Bonshaw
26	Sappho	J. F. Keating ..	Red Poll	8,246	4·46	367·45	Banzai
27	Bride of Comely Banks	Mrs. D. Stark ..	Jersey	6,804	5·28	359·13	Lotina's Larkspur's Twylish
28	Mildred of Greenwood ..	K. McGarvie ..	,,	8,015	4·42	355·78	Golden Hero of Greenwood
29	St. Albans Pearl ..	H. Allez	Friesian	10,910	3·19	348·07	St. Albans May King
30	Rosebud 2nd of Brookfield	J. A. Huffer ..	Jersey	7,070	4·92	347·62	Rarity's Fawn Duke of Melrose
31	Beauty 2nd of Belgonia	E. A. Dennis ..	,,	6,549	5·29	346·66	Hedge of Banyule
32	Quality of Meadowvale	W. H. Atherton ..	,,	5,235	6·61	346·24	Handsome Lad of Woodville
33	Flowing Vale Dewdrop 2nd	Evans Bros. ..	Red Poll	8,148	4·24	345·69	Vellum Victor
34	Rosie 55th of Lilydale ..	J. Wills	Friesian	9,732	3·55	345·20	Bolobek Major
35	Kyora Anthem ..	Miss S. L. Robinson	Jersey	6,127	5·62	344·48	Brown Duke of Glen Iris
36	Adella of Inverleigh ..	A. H. Schier ..	Ayrshire	8,202	4·20	344·42	Warwick of Sparrovale
37	Heatherbell of Sparrovale	Geelong Harbour Trust	,,	7,251	4·71	341·77	Scottish King of Gowrie Park
38	Beauty of Staghorn ..	F. Bidgood ..	Jersey	5,790	5·77	334·31	Werribee's Fancy Butter King
39	Lantana 2nd of Springhurst	F. Raggatt ..	,,	5,364	6·11	328·05	Kerensky of Springhurst
40	Myrtle of Retreat ..	H. V. McKay ..	Ayrshire	7,289	4·47	326·04	Commonwealth of Retreat
41	Dora of Woodstock Grange	H. D. W. Canobio..	,,	7,602	4·28	325·46	Combine of Glengowrie
42	Ruby of Jersey Vale ..	P. J. Ducat ..	Jersey	6,444	4·97	320·39	Choice 2nd of Tarnpirr
43	Cherry Pie 2nd ..	Evans Bros. ..	Red Poll	8,257	3·87	319·29	Dinkum Astrologer
44	Puce 4th of Carracoorte	W. Henderson ..	Ayrshire	7,169	4·42	316·70	Problem of Willow Vale
45	Dot of Greenvale ..	J. Plattfuss ..	Friesian	8,096	3·90	315·83	Victoria Rose Patch
46	Bumper 2nd of Greenwood	K. McGarvie ..	Jersey	6,027	5·23	315·19	Emulator of Greenwood
47	Floss of Roseneath ..	R. Goodman ..	Ayrshire	6,594	4·77	314·44	Fantarie of Willow Vale
48	Fancy of Wattle Bank ..	A. Kirby ..	,,	7,249	4·33	313·72	Weelfair'd
49	Gladness 4th of Struan Park	D. Kilby ..	,,	6,126	5·03	309·87	General of Gowrie Park
50	Milkmaid of Ferndale ..	J. E. Handbury and Sons	Jersey	5,943	5·19	308·44	Lord Grey of St. Albans
51	Forty Winks of Elouera	J. Clyne	,,	4,844	6·32	306·20	Lily's Lad of Holmwood
52	Snowdrop of Jersey Vale	Mrs. L. Orchard ..	,,	5,431	5·55	301·78	Choice 2nd of Tarnpirr
53	Bonnie Annie of Aberdour	Alston Estate ..	,,	5,691	5·29	301·00	Eminent V.C.
54	Bud of Woolamai Park	G. Kent	Ayrshire	6,639	4·50	298·59	Montrose of Ayrshire Bank
55	Marguerite of Mount Hope	M. Galbraith ..	,,	7,683	3·86	296·67	Stella's Prince of Gowrie Park
56	Grace of Roseleigh ..	H. V. McKay ..	,,	7,425	4·00	296·60	Burleigh of Gowrie Park
57	Daisy of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	5,275	5·59	294·90	Choice 2nd of Tarnpirr
58	Victoria Oakdale Lassie	Colac High School..	Friesian	7,611	3·82	291·01	Dominion Oakdale
59	Daisy 2nd of Bignold ..	Mrs. Archibald and Sons	Jersey	5,449	5·33	290·22	Jessemia's Imperial 4th of King's Vale
60	Rosebloom of Holly Green	H. L. Webb ..	Ayrshire	7,364	3·92	288·38	Maxwell of Gleneira
61	Music of Greenwood ..	K. McGarvie ..	Jersey	6,460	4·46	288·32	Collegian of Greenwood
62	Pretty Pansy of Wellbourne	G. Rowe ..	,,	4,530	6·33	286·49	Young Premier of Welbourne

SENIOR 3 YEAR OLD. (BETWEEN 3½ AND 4 YEARS.) 275 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
63	Tot of Greenvale ..	J. Plattfuss ..	Friesian	6,905	4·07	285·02	Victoria Rock Patch
64	Burnbank Milkman's Cora	Red Cross Farm ..	,,	7,915	3·58	283·41	Victoria Milkman Joe
65	Millie 2nd of Retreat ..	H. V. McKay ..	Ayrshire	6,739	4·15	279·56	Commonwealth of Retreat
66	Annie of Wattle Bank ..	A. Kirby ..	,,	6,194	4·35	268·09	Wecifair'd of Oakbank
67	For-get-me-not of Retreat	W. J. Muhlebach ..	,,	6,222	4·31	267·92	Commonwealth ofRetreat
68	Limerick	Mrs. E. Carroll ..	Red Poll	5,653	4·67	264·00	Highflyer
69	Ashlyn 74th	Flack and Sewell ..	Friesian	7,430	3·52	261·38	Royal King Champion
70	Scotswood Mystic ..	A. H. Schier ..	Ayrshire	6,415	4·00	257·54	Warwick of Sparrovale
71	Dunalister Northwood Bright Lass	D. Peter	Jersey	4,459	5·68	253·24	Dunalister Lotina's Bright Lad
72	Glad's Twin 2nd of Straun Park	D. Kilby ..	Ayrshire	5,438	4·60	250·37	General of Gowrie Park
73	Dolichos of Longerenong	Longerenong Agricultural College	,,	5,718	4·27	243·99	Gay Lad of Sparrovale
74	Daphne of Quarry Hills	J. G. Lobb ..	,,	6,130	3·88	237·78	Boaz of Wethersdane
75	Jubilee Dahlia ..	G. Esler	Jersey	5,196	4·53	235·56	Twylish Maderia's Fox 2nd
76	Lady Lottie of Northumbria	W. S. Richardson ..	,,	5,446	4·30	234·14	Admiral of Hill Crest
77	Scotswood Gaiety ..	A. H. Schier ..	Ayrshire	5,488	4·14	226·32	Vernon of Gleneira
78	Defender's Queen of Somerset	A. E. Batson ..	Jersey	4,664	4·81	224·57	Lord Silvermine 8th of Banyule
79	Minerva's Balm 3rd of Carracoorte	W. Henderson ..	,,	5,038	4·40	221·87	Victor 2nd of Carracoorte
80	Broom	Department of Agriculture	Red Poll	5,314	4·14	220·25	Nicotine
81	Linda of the Valley ..	Mrs. E. M. Lennie	Jersey	3,885	5·58	216·79	Banjo of Warenda
82	Daisy of Woolamai Park	G. Kent	Ayrshire	5,136	4·08	209·65	Montrose of Ayrshire Bank
83	St. Alban's Netherland Lady	R. Ferguson ..	Friesian	7,234	2·90	209·60	Westmere Prince Mercedes
84	Joy of Hill Crest ..	G. Rowe ..	Jersey	4,098	5·04	206·56	Bell Boy of Hill Crest
85	Countess of Carracoorte	W. Henderson ..	Ayrshire	4,515	4·56	206·08	Lord Dudley of Gowrie Park
86	Laura 6th of Carracoorte	W. Henderson ..	,,	4,625	4·27	197·30	Lord Dudley of Gowrie Park
87	Scotswood Music ..	A. H. Schier ..	,,	4,777	4·09	195·21	Warwick of Sparrovale
88	Violet 3rd of Carracoorte	W. Henderson ..	,,	4,248	4·44	188·48	Problem of Willow Vale
89	Gold Bird of Methven ..	C. Deverell ..	Jersey	3,134	5·91	185·15	Haig of Springhurst
90	Rachel 2nd of Struan Park	D. Kilby ..	Ayrshire	4,125	4·17	172·03	General of Gowrie Park
91	Dunalister Mannikin Sand Daisy	J. A. Huffer ..	Jersey	1,930	5·24	101·09	Mannikin of Glen Iris

JUNIOR 3 YEAR OLD. (Between 3 and 3½ Years.) 250 lb. Standard.

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
1	Velveteen 5th of Banyule	C. G. Lyon ..	Jersey	10,202	4·81	490·66	Milkmaid's Chief of Banyule
2	Vanilla 17th of Melrose	H. Cowling ..	,,	9,187	5·23	480·91	Golden Fern's Viscount
3	Gladiolus of Springhurst	J. D. Read ..	,,	8,463	5·66	478·69	Arcadia's Choice of Tarnpirr
4	Werribee Wyandotte Cream	F. E. Wilcox ..	,,	8,229	5·77	475·16	Werribee Wyandotte Fancy
5	Beauty 2nd of St. Albans	A. W. Jones and Son	,,	8,569	5·52	472·68	Brighton King 8th
6	Vesta of Somerville ..	J. Hutchinson and Sons	,,	9,048	5·04	456·08	Werribee Madeira Northwood King
7	Rosevale Cordele Posch	Flack and Sewell ..	Friesian	14,060	3·16	444·35	Rosevale Korndyke Sylvia Posch
8	Lily of Rosemont ..	T. Mesley ..	Jersey	6,939	6·20	430·35	Carrie's 5th Noble of Melrose
9	Chrysanthemum of Springhurst	J. D. Read ..	,,	8,764	4·85	425·33	Monash of Springhurst
10	Werribee Kinglark Bluebell	F. E. Wilcox ..	,,	6,308	6·60	416·24	Werribee Kinglark
11	Monkshood of Springhurst	J. D. Read ..	,,	7,900	5·26	415·91	Arcadia's Choice of Tarnpirr
12	Werribee Northern Princess	C. D. Lloyd ..	,,	6,825	6·08	415·00	Island Butter King
13	Peggy Pride of Warenda	T. Mesley ..	,,	5,908	6·97	411·74	Choirmaster of Warenda
14	Silvermine 24th of Banyule	C. G. Lyon ..	,,	7,612	5·34	406·26	Audrey's Lord Twylish
15	Burnbank Inka Sylvia Violet	Flack and Sewell ..	Friesian	9,641	4·15	400·30	Rosevale Inka Burkeyje
16	Victoria Reparation ..	Department of Agriculture	Red Poll	11,265	3·55	399·91	Nicotine

JUNIOR 3 YEAR OLD. BETWEEN 3 AND 3½ YEARS. 250 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
17	Chevy 13th of Melrose	H. Cowling	Jersey	6,681	5·93	396·38	Golden Fern's Viscount
18	Laura of Rosemont	R. H. Maher	"	6,708	5·81	389·82	Cobber of Banyule
19	Dulcie of Greenwood	K. McGarvie	"	7,671	5·08	389·50	Golden Hero of Greenwood
20	Springfield Lady 2nd	Flack and Sewell	Friesian	10,608	3·66	388·66	Rosevale Inka Sylvia Posch
21	Countess 3rd of Lesterfield	P. Chirnside	Jersey	6,289	6·14	386·09	Quality's 6th Son of Melrose
22	Midilli of Somerville	S. Earle	"	7,506	5·03	377·86	Milkmaid's Audrey Twylish
23	Buttercup of Airlie	P. J. Ducat	"	5,776	6·41	370·43	Rufus of Melrose
24	Poppy of Sparrovale	Geelong Harbour Trust	Ayrshire	8,868	4·15	368·31	Luminous of Sparrovale
25	Mignonette of Harcourt	A. A. Broad	Jersey	7,373	4·99	367·82	Messines of Springhurst
26	Bonny Jean 2nd of Ashby	Dickinson Bros.	Friesian	10,067	3·61	363·75	Bolobek General
27	Polygold of Springhurst	J. D. Read	Jersey	6,405	5·66	362·43	Arcadia's Choice of Tarnpirr
28	Honeycomb of Medburn Grove	C. Bamford	Ayrshire	8,537	4·23	360·07	Macadam of Gowrie Park
29	Azalea of Greenwood	K. McGarvie	Jersey	7,096	4·95	351·39	Golden Hero of Greenwood
30	Monitress of Rockbank	W. H. Axford	"	5,959	5·88	350·29	Nonie's King of Melksham Park
31	Bauhinia of Springhurst	J. D. Read	"	6,459	5·40	349·36	Monash of Springhurst
32	Burntbank Inka Sylvia Flower	Flack and Sewell	Friesian	7,973	4·30	343·59	Rosevale Inka Burkigji
33	Tiny Choice of Belgonia	P. J. Maloney	Jersey	5,761	5·91	340·45	Hedge of Banyule
34	My Hope of Lynulig	E. A. Dennis	"	6,591	5·11	336·65	Eminent of Tarnpirr
35	Missie of Greenwood	K. McGarvie	"	6,444	5·21	336·00	Golden Hero of Greenwood
36	Morning Star of Woorayl	Leongatha High School	"	5,748	5·81	334·20	Shooting Star of Woorayl
37	Silverfinch of Banyule	Simpson and Charlton	"	6,154	5·39	331·83	Moleskin Chief of Banyule
38	Jess of Clarendon Eyre	W. P. Rogen	"	6,938	4·75	329·69	Lotina's Larkspur's Twylish
39	Silver Maid of Glenwood	J. Hutchinson and Sons	"	5,579	5·87	327·22	Bulloak of Tarnpirr
40	Biddy 2nd of Kelburn	J. McDougall	"	6,235	5·22	325·57	Tiny Tim of Kelburn
41	Queenie of Riversdale	W. A. Fixter and Son	"	5,547	5·87	325·44	Tiny Tim of Kelburn
42	Westmere Pontiac Magpie	A. W. Jones and Son	Friesian	8,909	3·65	325·32	Wooderest Pieterje Pontiac
43	Gipsy Love of Woodside	C. D. Lloyd	Jersey	6,939	4·67	324·18	Goldfinder
44	Mavis of Ayrbrae	McFarlane Bros.	Ayrshire	7,355	4·40	323·88	Bruce of Ayrbrae
45	Victoria Joybell	Department of Agriculture	Friesian	8,769	3·67	321·74	Victoria Milkman Joe
46	Rosebud 2nd of Grangelea	A. A. Broad	Jersey	6,339	5·04	319·47	Golden Twylish
47	Springfield Nesta	A. W. Jones and Son	Friesian	10,619	3·00	318·51	Rosevale Inka Sylvia Posch
48	My Luck of Ilford	R. J. Henry	Jersey	6,194	5·13	317·81	Vanilla Chief of Banyule
49	Countess 4th of Ashby	Dickinson Bros.	Friesian	8,674	3·64	315·38	Victoria Milkman Joe
50	Vanilla 16th of Melrose	D. Peter	Jersey	5,051	6·24	315·03	Golden Fern's Viscount
51	Noorat Duchess	Mrs. A. Black	"	5,523	5·66	312·43	Milklad of Banyule
52	Larkspur of Tuerong	Baillieu Bros.	"	5,744	5·39	309·47	Tally Ho Twylish Lad
53	Starbright of Ruhbank	Miss S. L. Robinson	"	5,855	5·27	308·68	Kyora May's Mike
54	Kyora Anthem 2nd	Miss S. L. Robinson	"	6,249	4·94	308·43	Kyora Lotina's Merry Mike
55	Thelma of Rosciegh	H. V. McKay	Ayrshire	7,202	4·28	308·28	Fuchsia's Fredrick of Warrook
56	Annie Laurie of Sparrovale	Geelong Harbour Trust	"	7,146	4·31	307·89	Luminous of Sparrovale
57	Lady Grey 17th of St. Albans	A. W. Jones and Son	Jersey	6,013	5·07	304·63	Brighton King 8th
58	Preston Dairy Girl	A. A. Broad	"	6,356	4·78	303·63	Acacia King
59	Mena of Langley Park	Callery Bros.	Ayrshire	6,867	4·27	293·38	Playaway of Willowvale
60	Ada of Roseneath	R. Goodman	"	6,511	4·47	290·78	Selkirk of Rythdale Park
61	Pearl 12th of Melrose	L. W. Thompson	Jersey	5,083	5·68	288·74	Golden Fern's Viscount
62	Scotswood Marigold	A. H. Schier	Ayrshire	7,134	3·97	283·49	Warwick of Sparrovale
63	Merven	Evans Bros.	Red Poll	7,365	3·82	281·18	Dinkum Astrologer
64	Needle of Ruhbank	Miss S. L. Robinson	Jersey	4,453	6·31	281·16	Brown Duke
65	Bud of Sparrovale	Geelong Harbour Trust	Ayrshire	4,875	5·77	281·15	The Laird of Sparrovale
66	Marcia of Holly Green	J. G. Lobb	"	6,887	4·04	278·54	Glady's Pride of Wilson House
67	Mavis of Warenda	T. Mosley	Jersey	4,796	5·79	277·49	Choirmaster of Warenda
68	Dunalister Mannakin Attraction	D. Peter	"	5,127	5·41	277·19	Mannikin of Glen Iris
69	Iris 4th of Carracoorte	W. Henderson	Ayrshire	5,988	4·60	275·29	Lord Dudley of Gowrie Park
70	Ladylike of Cathcart	A. W. Gorman	"	5,982	4·50	269·11	Lavendo of Glencairn
71	Patricia of Ben Kell	R. Raltson	"	6,210	4·33	269·03	Marvel of Willowvale
72	Felicity of Clarendon Eyre	A. A. Richardson	Jersey	5,077	5·28	268·15	Lotina's Larkspur's Twylish
73	Cashmere's Queen of Roseneath	R. Goodman	Ayrshire	6,374	4·20	267·93	Ikon of Glen Alvie
74	Scotswood Jeanette	A. H. Schier	"	6,678	3·96	264·36	Magnet of Inverleigh
75	Gipps Wendy	Warragul High School	Red Poll	7,253	3·62	262·23	Warragul

JUNIOR 3 YEAR OLD. (BETWEEN 3 AND 3½ YEARS.) 250 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
76	Rosebloom 7th of Carracoorte	W. Henderson ..	Ayrshire	5,495	4·74	260·37	Problem of Willow Vale
77	Flowing Vale Salvetta ..	Evans Bros. ..	Red Poll	6,540	3·98	260·06	Dinkum Astrologer
78	Gloria of Longerenong ..	Longerenong Agricultural College	Ayrshire	5,372	4·80	257·75	Gaylad of Sparrovale
79	Springfield Ideal Keyes	J. Plattfuss ..	Friesian	8,072	3·19	257·42	Rosevale Ideal Keyes
80	Pauline 3rd of Ashby ..	Dickinson Bros. ..	„	7,709	3·30	254·70	Bolobek General
81	Dot of Franklin Park ..	W. A. Sandles ..	Jersey	4,791	5·31	254·66	Neat Lad of Kirkhill
82	Leonie 2nd of Clarendon Eyre	A. A. Richardson ..	„	4,611	5·50	253·01	Lotina's Larkspur's Twylish
83	Minnie 4th of Carracoorte	W. Henderson ..	Ayrshire	5,595	4·51	252·33	Lord Dudley of Gowrie Park
84	Chloe 2nd of Clarendon Eyre	A. A. Richardson ..	Jersey	3,490	7·22	252·01	Lotina's Larkspur's Twylish
85	Daisy 3rd of Somerset ..	A. E. Batson ..	„	4,811	5·14	247·56	Lord Silvermine 8th of Banyule
86	Belladonna of Sparrovale	Geelong Harbour Trust	Ayrshire	5,413	4·47	242·08	Scottish King of Gowrie Park
87	Winnie of Welbourne ..	G. Rowe ..	Jersey	4,152	5·79	240·49	Beauty's Prince of Somerville
88	Korong Belle 3rd ..	J. Baker ..	Red Poll	5,359	4·42	236·93	Uncle Sam
89	Dahlia 3rd of Carracoorte	W. Henderson ..	Ayrshire	5,038	4·70	236·71	Problem of Willowvale
90	Princess of Woorayl ..	Leongatha High School	Jersey	4,150	5·70	236·63	Cream Duke of Glen Iris
91	Bud of Woolamai Park	G. Kent	Ayrshire	5,453	4·28	234·30	Montrose of Ayrshire Bank
92	Effie of Langley Park ..	Callery Bros. ..	„	5,485	4·25	232·85	Playaway of Willow Vale
93	Fennella 7th of Carracoorte	W. Henderson ..	„	5,557	4·12	229·02	Lord Dudley of Gowrie Park
94	Woodruff Mystic Maid	R. Purnell ..	Jersey	3,379	6·72	226·94	White Fox of Clovelly
95	St. Alban's Dairy Queen	A. W. Jones and Son	Friesian	7,944	2·86	226·92	Burdett's Prince
96	Gaiety Girl 12th of Melrose	L. W. Thompson ..	Jersey	3,749	5·93	222·27	Golden Fern's Viscount
97	Bud 3rd of Carracoorte	W. Henderson ..	Ayrshire	4,767	4·62	220·32	Lord Dudley of Gowrie Park
98	Sunrise of Rythdale Park	J. G. Lobb ..	„	5,082	4·28	217·69	Leonard of Rythdale Park
99	Queenie 4th of Willow Park	W. K. Atkinson ..	Shorthorn	4,868	4·40	214·05	Stratagem of Willow Park
100	Minerva's Balm 4th of Carracoorte	W. Henderson ..	Ayrshire	4,755	4·49	213·50	Lord Dudley of Gowrie Park
101	Affection of Woongarra	W. R. Meredith ..	„	4,716	4·73	213·19	Stanley of Gowrie Park
102	Betsy 10th of Carracoorte	W. Henderson ..	„	5,075	4·18	212·27	Lena's Fritz of Carracoorte
103	Betsy 9th of Carracoorte	W. Henderson ..	„	4,384	4·83	211·69	Problem of Willow Vale
104	Filpail 8th of Carracoorte	W. Henderson ..	„	5,092	4·15	211·52	Lena's Fritz of Carracoorte
105	Myrtle of Woolamai Park	G. Kent	„	4,523	4·65	210·16	Bonnie Boy of Woolamai Park
106	Lella of Hillcrest ..	M. and W. A. Francis	„	4,933	4·23	208·87	Victor of Warrook
107	Joan of Larderberg ..	J. Wills	Friesian	6,656	3·11	207·11	May's Prince of St. Albans
108	Rosebloom 5th of Carracoorte	W. Henderson ..	Ayrshire	5,044	4·10	206·69	Heather Jock of Invergordon
109	Dora of Netherbrae ..	C. L. Rigby ..	„	6,099	3·36	204·76	Hilda's Earl of Glencira
110	Garland of Carracoorte..	W. Henderson ..	„	4,762	4·28	203·43	Lord Dudley of Gowrie Park
111	Beauty of Peeralilea ..	Baillieu Bros. ..	Jersey	3,931	5·14	202·24	Tally Ho Twylish Lad
112	Daisy 2nd of Somerset ..	A. E. Batson ..	„	3,148	6·34	199·48	Lord Silvermine 8th of Banyule
113	Helena 2nd of Carracoorte	W. Henderson ..	Ayrshire	4,660	4·25	197·84	Problem of Willow Vale
114	Marjory of Woolamai Park	G. Kent	Jersey	4,443	4·44	197·47	Luminous of Woolamai Park
115	Pimpernel of Sparrovale	Geelong Harbour Trust	Ayrshire	4,720	4·16	196·34	Scottish King of Gowrie Park
116	Scotswood Mayflower ..	A. H. Schier ..	„	5,198	3·75	194·73	Justice of Inverleigh
117	Rosebud of Hillcrest ..	M. and W. A. Francis	„	4,429	4·39	194·35	Laddie of Hillcrest
118	Scotswood Mistletoe ..	A. H. Schier ..	„	4,057	4·69	190·79	Warwick of Sparrovale
119	Gladsome of La Trobe	Sale High School ..	„	4,468	4.26	190·43	Garry of Springfield
120	Coral 5th of Carracoorte	W. Henderson ..	„	4,412	4·20	185·25	Lord Dudley of Gowrie Park
121	Gracie of Netherbrae ..	C. L. Rigby ..	„	5,717	3·16	180·85	Hilda's Earl of Glencira
122	Daisy of Grangelea ..	J. Huffer.. ..	Jersey	3,063	5·81	178·25	New Alliance of Jerseyholm
123	Karong Rose 6th ..	J. Baker ..	Red Poll	4,440	3·87	171·87	Uncle Sam
124	Bloom of Carracoorte ..	W. Henderson ..	Ayrshire	4,335	3·95	171·03	Lord Dudley of Gowrie Park
125	Noorat Starling ..	Mrs. A. Black ..	Jersey	2,904	5·85	170·00	Milk Laddie
126	Scotswood Extra Quality	A. H. Schier ..	Ayrshire	3,588	4·69	167·96	Gay Duke of Gleneira
127	Lucy 4th of Carracoorte	W. Henderson ..	„	3,840	4·37	167·90	Lord Dudley of Gowrie Park
128	Rosebloom 6th of Carracoorte	W. Henderson ..	„	4,111	4·08	167·72	Problem of Willow Vale
129	Scotswood Sweet Marie	A. H. Schier ..	„	3,835	3·73	143·05	Majesty of Fernhill
130	Ashlyn 69th ..	Flack and Sewell ..	Friesian	3,023	3·57	107·87	Royal King Champion
131	Lady Mac of Carracoorte	W. Henderson ..	Ayrshire	1,425	4·33	61·62	Problem of Willow Vale
132	Sparkle 4th of Carracoorte	W. Henderson ..	„	1,165	4·30	48·51	Victor 2nd of Carracoorte

SENIOR 2 YEAR OLD. (Between 2½ and 3 Years.) 225 lb. Standard.

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
1	Agnes 2nd of Warenda	T. Mesley	Jersey	8,035	6·40	514·43	Jazz of Warenda
2	Vanity of Woorayl	Agricultural High School	,,	6,132	7·40	453·57	Cream Duke of Glen Iris
3	Bainfield Topsy 15th	Flack and Sewell	Friesian	8,750	5·04	440·70	Rosevale King Sylvia
4	Princess 2nd of Strathbow	J. E. Handbury and Sons	Jersey	7,314	5·93	433·74	Golden Mac of Strathbow
5	Tecoma of Springhurst	J. D. Read	,,	7,894	5·42	427·83	Cossock of Springhurst
6	Lassie Fowler of Rosemont	R. H. Maher	,,	6,982	6·11	426·67	Cobber of Banyule
7	Tiny of Beverley	T. H. Atherton	,,	6,925	6·16	426·52	Rarity 8th's Eclipse of Meadow Vale
8	Melody 2nd of Warenda	Mrs. A. Black	,,	6,654	6·32	420·29	Choirmaster of Warenda
9	Norma of Terara	H. Luxton	,,	7,144	5·80	414·51	Carnegie of Terara
10	Dot of Greenwood	K. McGarvie	,,	7,291	5·65	412·20	Foxy Duke of Greenwood
11	Lassie of Strathbow	J. E. Handbury and Sons	,,	7,482	5·45	407·74	Golden Mac of Strathbow
12	Dinah of Greenwood	K. McGarvie	,,	7,259	5·62	407·74	Golden Hero of Greenwood
13	Keepsake 2nd of Warenda	T. Mesley	,,	7,339	5·55	407·62	Choirmaster of Warenda
14	Lily's Queen of Holly Green	H. Webb	Ayrshire	10,640	3·80	403·78	Gladys Pride of Wilson House
15	Bolobek Damsel	O. J. Syme	Friesian	9,752	4·09	398·92	Rhoda Prince of Rubicon
16	Birdsfoot of Springhurst	D. Cameron and Son	Jersey	6,429	6·16	395·75	Cossock of Springhurst
17	Dianthus of Springhurst	J. D. Read	,,	6,284	6·25	392·61	Arcadia's Choice of Tarnpirr
18	Namesake 3rd of Warenda	T. Mesley	,,	6,302	6·20	390·96	Choirmaster of Warenda
19	Burnbank Bainfield Patch	Flack and Sewell	Friesian	9,974	3·91	390·05	Rock Patch
20	Blossom of Belgonia	P. J. Maloney	Jersey	7,300	5·20	379·45	Hedge of Banyule
21	Dulcette of Laringa	H. Petersen	,,	7,442	4·98	370·30	Gem's Silver Fox of Laringa
22	Lady Grey 25th of St. Albans	J. J. Baker	,,	6,790	5·37	364·81	Brighton King 8th
23	Dairy Lass 2nd of Carracoorte	W. Henderson	Ayrshire	8,190	4·44	363·74	Lord Dudley of Gowrie Park
24	Heather of Springhurst	J. D. Read	Jersey	6,359	5·62	357·61	Arcadia's Choice of Tarnpirr
25	Lady Grey 23rd of St. Albans	J. J. Baker	,,	6,021	5·94	357·60	King 3rd of St. Albans
26	Dunalister Mannikin Noble Myrtle	H. Luxton	,,	5,929	6·02	356·66	Mannikin of Glen Iris
27	Empress 2nd of Jerseyholm	T. Harvey	,,	5,611	6·32	354·63	New Alliance of Jerseyholm
28	Mystery of Belgonia	P. J. Maloney	,,	6,612	5·32	351·66	Hedge of Banyule
29	Una of Woorinna	C. Deverell	,,	5,089	6·91	351·17	Big Chief of Glen Iris
30	Regina of Aberdour	Alston Estate	,,	6,654	5·24	348·48	Bouquet of Tarnpirr
31	Silver Wattle of Bellaire	W. H. Atherton	,,	7,212	4·80	346·19	Prince of Bellaire
32	Mandolin of Warenda	T. Mesley	,,	5,556	6·21	345·01	Jazz of Warenda
33	Maid of Cathcart	H. Webb	Ayrshire	8,236	4·19	344·69	Lavendo of Glencairn
34	Eclipse's Vixen of Meadow Vale	J. Cook	Jersey	5,653	6·09	344·38	Rarity 8th's Eclipse of Meadow Vale
35	Empire 9th of Melrose	W. Woodmason	,,	5,921	5·79	342·72	Golden Fern's Viscount
36	Iris 5th of Carracoorte	W. Henderson	Ayrshire	7,737	4·41	340·98	Lena's Fritz of Carracoorte
37	Larkspur of Greenwood	K. McGarvie	Jersey	5,658	6·02	340·85	Golden Hero of Greenwood
38	Countess of Holly Green	H. L. Webb	Ayrshire	6,918	4·92	340·37	Headlight of Holly Green
39	Graceful Duchess 27th of Melrose	K. McGarvie	Jersey	4,878	6·94	338·77	Golden Fern's Viscount
40	Postcard of Paradise	A. L. N. Walter	,,	5,025	6·73	337·95	Big Chief of Glen Iris
41	Lily 2nd of Jersey Vale	Mrs. L. Orchard	,,	5,574	6·04	336·43	Choice 2nd of Tarnpirr
42	Burnbank Fayne Segis Patch	Flack and Sewell	Friesian	7,774	4·32	335·98	Rock Patch
43	Mercedes Belle of Avalon	F. Austin	Jersey	6,238	5·37	335·23	Mercedes Chief of Glen Iris
44	Rosebud of Paradise	A. L. N. Walter	,,	5,623	5·92	333·09	Golden Hero of Greenwood
45	Twylish's Twinkle of Marimba	H. Luxton	,,	6,444	5·12	329·71	Twylish's Madeira Fox 2nd of Werribee
46	Chrissie of Greenwood	K. McGarvie	,,	5,648	5·83	329·23	Grey Fox of St. Albans
47	Victoria Rose Major	Department of Agriculture	Red Poll	8,223	3·95	324·54	Longford Major
48	Colina of Methven	F. Raggatt	Jersey	4,852	6·69	324·36	Arcadia's Choice of Tarnpirr
49	St. Albans Woodcrest Nellie	A. W. Jones and Son	Friesian	10,045	3·22	323·28	Woodcrest Paul
50	Buttercup of Jersey Vale	Mrs. L. Orchard	Jersey	6,104	5·29	322·62	Choice 2nd of Tarnpirr
51	Kitty of Welbourne	J. Huffer	,,	6,844	4·71	322·57	Beauty's Prince of Somerville
52	Marigold 2nd of Greenwood	K. McGarvie	,,	5,992	5·31	318·00	Grey Fox of St. Albans
53	Jewel of Greenwood	K. McGarvie	,,	5,979	5·31	317·81	Golden Hero of Greenwood
54	Music of Colac	M. H. Hearn	,,	5,596	5·68	317·61	Wayback of Melrose
55	Daisy 16th of Melrose	Lehman Bros.	,,	5,215	6·08	317·25	Jessie 13th's Count of Melrose

SENIOR 2 YEAR OLD. (BETWEEN 2½ AND 3 YEARS.) 225 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
56	Freezia of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	5,962	5·27	313·90	Choice 2nd of Tarnpirr
57	Rosemary of Greenwood	K. McGarvie ..	,,	6,084	5·15	313·28	Foxy Duke of Greenwood
58	Flowing Vale Cherry Lea	Evans Bros. ..	Red Poll	6,831	4·59	313·28	Bellum Victor
59	Blossom of Thisledon ..	Cockbill Bros. ..	Ayrshire	6,544	4·69	307·20	Barney of Springfield
60	Jessie of Willow Park ..	W. K. Atkinson ..	Shorthorn	7,454	4·09	305·23	Havelock of Darbalara
61	Bud of Linga Longa ..	Mrs. I. Beard ..	Jersey	5,253	5·80	304·93	Dawn of Warenda
62	Alice of Roseleigh ..	G. Gange ..	Ayrshire	7,443	4·09	304·66	Fredrick of Warrook
63	Canary of Peeralillea ..	Baillieu Bros. ..	Jersey	5,538	5·49	303·92	Tally Ho Twylish Lad
64	Daisy of Paradise ..	A. L. N. Walter ..	,,	6,402	4·74	303·37	Wayback of Melrose
65	Rosebud of Roseleigh ..	G. Gange ..	Ayrshire	7,393	4·10	302·82	Fuchsia's Fredrick of Warrook
66	Sulla of Springhurst ..	J. D. Read ..	Jersey	5,968	5·03	300·33	Monash of Springhurst
67	Waide of Greenvale ..	J. Plattfuss ..	Friesian	8,455	3·51	297·19	Victoria Rose Patch
68	Henham Dorcus ..	T. H. Payne ..	Red Poll	8,338	3·56	297·05	Henham Dairyman
69	Lydia's Pride of Peeralillea	Baillieu Bros. ..	Jersey	5,973	4·95	295·46	Tally Ho Twylish Lad
70	Jubilee Cornflower ..	A. F. Corben ..	,,	5,191	5·63	292·36	Goddington Winks 6th
71	Corriedale Gala Princess	Master J. Baker ..	Red Poll	6,190	4·71	291·51	Victoria Flight Commander
72	Peerless of Paradise ..	A. L. N. Walter ..	Jersey	5,475	5·25	287·49	Wayback of Melrose
73	Bolobek Mona ..	O. J. Syme ..	Friesian	8,364	3·41	285·62	Colantha Van Wild Rose
74	Snowdrop of Jersey Vale	Mrs. L. Orchard ..	Jersey	4,981	5·73	285·47	Choice 2nd of Tarnpirr
75	Jessie 33rd of Melrose ..	J. E. Handbury and Sons	,,	4,839	5·90	285·38	Golden Fern's Viscount
76	Perree's Rye of Glen Iris	C. D. Lloyd ..	,,	4,739	6·02	285·18	Perree's Duke
77	Boronia of Roseleigh ..	G. Gange ..	Ayrshire	6,745	4·20	283·46	Fuchsia's Fredrick of Warrook
78	Rosebud of Taranah ..	C. W. Macauley ..	Jersey	4,277	6·58	281·28	Lily's 6th Son of Melrose
79	Burnbank Springfield Inka Lass	Flack and Sewell ..	Friesian	8,135	3·43	279·07	Springfield Inka
80	Lady Jane of Elouera ..	H. G. Lyon ..	Jersey	4,701	5·92	278·14	Lily's Lad of Holmwood
81	Princess Royal of Somerville	J. L. Gardener ..	..	5,934	4·66	276·46	Werribee Madeira's Northwood King
82	Mollie of Greenwood ..	K. McGarvie ..	,,	4,931	5·60	276·33	Emulator of Greenwood
83	Jenny Lind of Rosemont	R. H. Maher ..	,,	5,101	5·39	274·86	Cobber of Banyule
84	Clover of Mona Bank ..	R. Faragher ..	,,	4,750	5·79	274·80	Foxie of Tarnpirr
85	Mercedes Buttercup of Avalon	F. Austin ..	,,	5,530	4·91	271·56	Mercedes Chief of Glen Iris
86	Daisy Ballara	F. Trevaskis ..	,,	5,124	5·28	270·47	Hedge of Banyule
87	Alma of Dudleigh ..	G. Vallence ..	Ayrshire	5,359	5·02	268·82	Lang of Gleneira
88	Bonnie Lass of Riccarton	C. D. Lucas ..	,,	6,123	4·37	267·64	Lantus of Willow Vale
89	Faith of Peri	J. Phillips ..	Jersey	5,634	4·73	266·30	Bosun of Meadow Vale
90	Necton Effigy ..	T. H. Payne ..	Red Poll	6,416	4·15	266·17	Sudbourne Crœsus
91	Graceful Duchess 29th of Melrose	M. Lyons ..	Jersey	4,179	6·31	263·62	Jessie 13th's Count of Melrose
92	Lady Evelyn of Roseleigh	G. Gange ..	Ayrshire	6,309	4·16	262·40	Fuchsia's Fredrick of Warrook
93	Daisy of Linga Longa ..	Mrs. I. Beard ..	Jersey	4,019	6·41	257·60	Arcadia's Choice of Tarnpirr
94	Linda 2nd of the Valley	Mrs. E. M. Lennie ..	,,	4,635	5·51	255·59	Banjo of Warenda
95	Flower of Paradise ..	A. L. N. Walter ..	,,	4,410	5·69	250·86	Primrose's Son of Melrose
96	Beryl of Sparrovale ..	Geelong Harbour Trust	Ayrshire	5,824	4·25	247·65	Laird of Sparrovale
97	Fulham Cora 1st ..	Cockbill Bros. ..	,,	5,103	4·85	247·54	Provider of Willow Vale
98	Lady Lottie of Northumbria	W. S. Richardson ..	Jersey	5,409	4·57	247·01	Admiral of Hill Crest
99	Mode of Cathcart ..	A. W. Gorman ..	Ayrshire	5,469	4·47	244·51	Lavendo of Glencairn
100	Idahlia of Wethersdane	A. H. Schier ..	,,	5,689	4·29	244·11	His Majesty of Wethersdane
101	Myra 2nd of the Valley	Mrs. E. M. Lennie ..	Jersey	4,602	5·22	240·43	Banjo of Warenda
102	Duchess of Woodstock Grange	H. D. W. Canobio ..	Ayrshire	6,126	3·91	239·47	Robin of Wethersdane
103	Victoria Wedding Belle	Department of Agriculture	Friesian	6,838	3·50	239·32	Victoria Milkman Joe
104	Victoria Proud Lulu ..	Department of Agriculture	,,	6,672	3·54	236·25	Victoria Proud Patch
105	Swiss of Springburn Park	C. Lees	Ayrshire	5,226	4·51	235·72	Advance of Gleneira
106	Rosebud of Woodside	Miss S. L. Robinson	Jersey	3,822	6·16	235·41	Champion of Woodside
107	Dianthus of Methven ..	C. Deverell ..	,,	3,634	6·48	235·32	Arcadia's Choice of Tarnpirr
108	Crissie of Hyde Park ..	Telford Bros. ..	Ayrshire	5,034	4·67	235·15	Elsdon of Willow Vale
109	Kipper of Tregarland ..	J. F. Tuckey ..	,,	5,872	3·99	234·57	Landlord of Gowrie Park
110	Duchess 2nd of Willow Park	W. K. Atkinson ..	Shorthorn	6,337	3·68	233·26	Stratagem
111	Victoria Milk Belle ..	Colac High School ..	Friesian	6,892	3·35	230·89	Victoria Milkman Joe
112	Woodburn Gratis 2nd ..	T. H. Payne ..	Red Poll	4,453	5·17	230·19	Astronomy
113	Flowing Vale Dewbelle	Evans Bros. ..	,,	4,963	4·60	228·27	Major Tasman
114	Peeress of Leven Brae	T. R. Findlay ..	Jersey	4,919	4·62	227·03	Brighton King 8th
115	Rosemary of Concordia	Lehman Bros. ..	,,	4,578	4·91	224·76	Brighton King 8th
116	Kish of Tregorland	J. F. Tuckey ..	Ayrshire	5,495	4·03	221·23	Larus of Gowrie Park

SENIOR 2 YEAR OLD. (BETWEEN 2½ AND 3 YEARS.) 225 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
117	Annie 2nd of Rythdale Park	J. G. Lobb ..	Ayrshire	5,803	3·80	220·43	Marvel of Devon Park
118	Lucy 5th of King's Vale	J. Anderson, junr...	Jersey	2,068	7·23	214·42	Jessimia's Imperial 5th of King's Vale
119	Alice of Wattle Bank ..	A. Kirby ..	Ayrshire	5,159	4·14	213·49	Lieutenant of Gowrie Park
120	Ruby of Willow Park ..	W. K. Atkinson ..	Shorthorn	4,901	4·33	211·99	Havelock of Darbalara
121	Shamrock of Sparrovale	Geelong Harbour Trust	Ayrshire	4,096	4·95	202·69	Scottish King of Gowrie Park
122	Victoria Moora ..	Department of Agriculture	Red Poll	5,543	3·63	201·06	Longford Major
123	Madge of La Trobe ..	Sale High School ..	Ayrshire	4,779	4·18	199·74	Digger of Warrook
124	Manor Tiarella ..	T. H. Payne ..	Red Poll	4,492	4·39	197·15	Henham Dairyman
125	La France of Perralillea	Baillieu Bros. ..	Jersey	3,874	5·03	194·96	Tally Ho Twylish Lad
126	Flowing Vale Vellette ..	Evans Bros. ..	Red Poll	4,508	4·31	194·34	Major Tasman
127	Scotswood Sylvia ..	A. H. Schier ..	Ayrshire	4,029	4·82	194·33	Warwick of Sparrovale
128	Meville Beauty of Carracoorte	W. Henderson ..	,,	4,605	4·07	187·47	Lord Dudley of Gowrie Park
129	Daisy of Woolamai Park	G. Kent	,,	4,321	4·22	182·57	Montrose of Ayrshire Bank
130	Trixie 3rd of Linden ..	F. W. Beischer ..	Jersey	3,144	5·77	181·54	Annette's Chief of Linden
131	Lena 3rd of Carracoorte	W. Henderson ..	Ayrshire	4,140	4·30	178·21	Problem of Willow Vale
132	Anitra 2nd of Struan Park	D. Kilby ..	,,	3,087	5·05	156·02	General of Gowrie Park
133	Nellie of Springfield ..	H. V. McKay ..	,,	3,463	3·89	134·82	Royal Prince of Gleneira
134	Gay Dawn of Gleneira ..	C. Lees	,,	2,864	4·35	124·58	Duke of Gleneira

JUNIOR 2 YEAR OLD. (Under 2½ Years.) 200 lb. Standard.

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
1	Madrigal of Warenda ..	T. Mesley ..	Jersey	8,362	5·81	485·55	Kewpie of Warenda
2	Harclell of Springhurst	D. Cameron and Son	,,	7,851	5·94	466·71	Superior V.C. of Tarnpirr
3	Ragtime 2nd of Warenda	T. Mesley ..	,,	7,533	5·95	448·33	Kinnor of Banyule
4	Burnbank Inka Segis Violet	Flack and Sewell ..	Friesian	11,385	3·83	436·46	Alderley Segis Beets
5	Cello of Warenda ..	T. Mesley ..	Jersey	6,692	6·44	431·20	Choirmaster of Warenda
6	Burnbank Mercedes Patch	Flack and Sewell ..	Friesian	11,559	3·72	430·18	Rock Patch
7	Bainfield Springfield Topsy 6th	O. J. Syme ..	,,	9,054	4·67	423·09	Rosevale King Sylvia
8	Audrey's Princess of Methven	C. Deverell ..	Jersey	6,634	6·04	400·86	Cora 2nd's Twylish of Elouera
9	Empress 3rd of Jerseyholm	T. Harvey ..	,,	6,637	5·96	395·69	New Alliance of Jerseyholm
10	Lassie 2nd of Strathbow	F. Raggatt ..	,,	7,032	5·49	385·84	Golden Mack of Strathbow
11	Garonne 5th of Warenda	T. Mesley ..	,,	6,384	6·03	384·88	Kinnor of Banyule
12	Soprano 4th of Banyule	C. G. Lyon ..	,,	7,361	5·23	384·71	Molly's Twylish of Banyule
13	Philomel 2nd of Warenda	T. Mesley ..	,,	6,873	5·59	383·98	Kinnor of Banyule
14	Bluebell of Aberdour ..	Alston Estate ..	,,	6,516	5·86	381·98	Bouquet of Tarnpirr
15	Fairy of Willow Park ..	W. K. Atkinson ..	Shorthorn	9,498	4·00	380·12	Stratagem of Willow Park
16	Mystery of St. Albans ..	R. Purnell ..	Jersey	5,958	6·33	279·08	Menaleus of Kaima
17	Burnbank Muller Patch	Flack and Sewell ..	Friesian	9,855	3·82	376·30	Rock Patch
18	Columbine of Gleneira ..	D. Wadelton ..	Ayrshire	9,534	3·91	373·11	Lessnessock's Pride of Inglewood
19	Buttercup of Rockbank	C. Wade	Jersey	5,991	6·21	372·15	Fairy Boy of St. Albans
20	Vivien of Ayr Brae ..	McFarlane Bros. ..	Ayrshire	7,963	4·64	369·26	Harmonist of Ellerslie
21	Gazelle 3rd of Warenda	T. Mesley ..	Jersey	6,276	5·84	366·55	Kewpie of Warenda
22	Winlaton Secret Princess	Flack and Sewell ..	Friesian	9,723	3·70	359·66	King Alcartra
23	Harmony of Leura ..	W. H. Axford ..	Jersey	5,833	6·16	359·53	Discord of Warenda
24	Fuchsia 3rd of St. Albans	A. W. Jones and Son	,,	6,246	5·75	359·36	King 3rd of St. Albans
25	Blossom 2nd of Belgonia	P. J. Maloney ..	,,	7,931	4·52	358·80	Hedge of Banyule
26	Beauty 3rd of St. Albans	A. W. Jones and Son	,,	7,055	5·07	358·00	King 3rd of St. Albans
27	Bluebell 5th of Jerseyholm	T. Harvey ..	,,	5,799	6·15	356·83	New Alliance of Jerseyholm
28	Bluebell 4th of Jerseyholm	Quigley and Bennett	,,	5,999	5·94	356·61	New Alliance of Jerseyholm
29	Jubilee Thyme ..	G. Esler	,,	6,729	5·29	356·02	Goddington Winks 6th
30	Burnbank Canary Patch	Flack and Sewell ..	Friesian	9,193	3·87	355·95	Rock Patch

JUNIOR 2 YEAR OLD. (UNDER 2½ YEARS.) 200 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
31	Burnbank Inka Segis Fraulin Muller	Flack and Sewell ..	Friesian	10,670	3·31	353·00	Alderley Segis Beets
32	Day Star of Woorayl ..	Leongatha High School	Jersey	5,700	6·17	351·79	Cream Duke of Glen Iris
33	Jenny Lind 2nd of Rosemont	R. H. Maher ..	,,	5,553	6·33	351·53	Cobber of Banyule
34	Sparkle 7th of Jerseyholm	T. Harvey ..	,,	5,242	6·69	350·95	New Alliance of Jerseyholm
35	Lady Lucy of Aveley ..	H. Luxton ..	,,	6,833	5·12	349·56	Werribee Wyandotte Satisfaction
36	Medick of Springhurst ..	J. D. Read ..	,,	6,594	5·30	349·25	Superior V.C. of Tarnpirr
37	Princess of Woorayl ..	Leongatha High School	,,	5,635	6·19	349·08	Cream Duke of Glen Iris
38	Burnbank Jessie Alcartra	Flack and Sewell ..	Friesian	9,346	3·72	347·42	King Alcartra Netherland
39	Pretty Lady of Whare Koa	J. Cook	Jersey	5,953	5·80	345·01	Retford Mourier Lad
40	Science of Comely Banks	Finn Bros. ..	,,	6,475	5·29	342·49	Escape's Lad of Comely Banks
41	Princess of Glenwood ..	J. Hutchinson and Sons	,,	6,375	5·35	341·22	Lotus King of Staghorn
42	Annette of Aberdour ..	Alston Estate ..	,,	6,259	5·44	340·63	Bouquet of Tarnpirr
43	Damsel of Willow Park	W. K. Atkinson ..	Shorthorn	7,413	4·55	337·65	Havelock of Darbalara
44	Beatrice of Merivale ..	C. Wade	Jersey	6,649	5·07	337·23	Twylish's Queen's Fox
45	Destiny of Gleneira ..	D. Wadelton ..	Ayrshire	7,950	4·23	336·61	Lessnessock's Pride of Inglewood
46	Venus of Banyule ..	C. G. Lyon ..	Jersey	5,976	5·61	335·02	M.A.T. of Banyule
47	Zoe 7th of Melrose ..	Miss H. E. Raleigh	,,	6,493	5·15	334·25	Jessie 13th Count of Melrose
48	Jubilee Lotus ..	Miss B. B. Reid ..	,,	5,723	5·84	334·24	Jubilee Flashlight
49	House Maid of Welbourne	J. A. Huffer ..	,,	7,662	4·35	333·03	Beauty's Prince of Somerville
50	Blossom 6th of Melrose	A. J. Schlipalius ..	,,	5,779	5·76	332·63	Golden Fern's Viscount
51	Kyora Rocket 2nd ..	Miss S. J. Robinson	,,	6,027	5·51	332·16	Werribee Wyandotte Fancy
52	Stumpy of Belgonia ..	P. J. Maloney ..	,,	5,671	5·84	330·92	Hedge of Banyule
53	Chickawee of Bushby Park	Mrs. F. M. Akehurst	,,	5,602	5·89	329·83	Glenrenard
54	Pearl of Holbrook ..	A. Ellis	,,	6,009	5·47	329·00	Auburn of Kelburn
55	Werribee Attraction's Fancy Madeira	P. Chirnside ..	,,	5,102	6·44	328·77	Werribee Attraction's Fancy
56	Daisy 2nd of Rosemont	R. H. Maher ..	,,	5,430	6·01	328·01	Cobber of Banyule
57	Kyora Twinkle 2nd ..	Miss S. L. Robinson	,,	6,234	5·24	326·39	Werribee Wyandotte Fancy
58	Starfinch 7th of Banyule	C. G. Lyon ..	,,	6,633	4·88	323·98	Milkmaid's Chief of Banyule
59	Victoria Ghenta ..	Department of Agriculture	Red Poll	8,317	3·86	321·04	Longford Major
60	Brunette 15th of King's Vale	J. Anderson, junr...	Jersey	5,556	5·75	319·45	Thorn of Banyule
61	Silvermine 25th of Banyule	C. G. Lyon ..	,,	5,347	5·96	318·48	Lily 3rd's Prince of Ferntree Vale
62	Fulham Vanity ..	Cockbill Bros. ..	Ayrshire	6,632	4·75	314·71	Laird of Sparrovale
63	Holly's Queen of Strathey	W. J. Muhlebach ..	,,	6,879	4·57	314·26	Violet's King of Retreat
64	Lady Grey 26th of St. Albans	A. W. Jones and Son	Jersey	6,281	4·99	313·32	King 3rd of St. Albans
65	Lily's Maid of Comely Banks	Finn Bros. ..	,,	6,010	5·21	312·97	Lily's Lad of Holmwood
66	Princess 4th of Grangelea	A. A. Broad ..	,,	5,529	5·65	312·17	Golden Twylish
67	Goldmine of Methven ..	C. Deverell ..	,,	5,527	5·64	311·98	Haig of Springhurst
68	Viola 7th of King's Vale	J. Anderson, junr...	,,	5,473	5·69	311·34	Jessemia's Imperial 5th of King's Vale
69	Marie 2nd of Belgonia ..	P. J. Maloney ..	,,	5,709	5·45	311·07	Choice Boy of Belgonia
70	Lady Grey 29th of St. Albans	A. W. Jones and Son	,,	5,328	5·81	309·45	Brighton King 8th
71	Foxglove of Lynuilg ..	E. A. Dennis ..	,,	5,265	5·88	309·43	Tiny's Treasure of Tarnpirr
72	Heather of Concordia ..	Lehman Bros. ..	,,	6,160	5·02	309·03	Hannibal of Melrose
73	Graceful Duchess 31st of Melrose	W. Woodmason ..	,,	5,012	6·16	308·93	Golden Fern's Viscount
74	Canary 13th of King's Vale	J. Anderson, junr...	,,	5,709	5·39	307·89	Jessemia's Imperial 5th of King's Vale
75	Kirsty 14th of Jerseyholm	Quigley and Bennett	,,	4,847	6·30	305·55	New Alliance of Jerseyholm
76	Princess of Belgonia ..	P. J. Maloney ..	,,	4,184	7·29	305·05	Hedge of Banyule
77	Audrey of Woorayl ..	Leongatha High School	,,	4,765	6·39	304·53	Cream Duke of Glen Iris
78	Brown Belle of Whare Koa	J. L. Gardener ..	,,	5,395	5·64	304·37	Retford Mourier Lad
79	Joy Bell of Ballara ..	T. F. Trevaskis ..	,,	5,072	5·98	303·49	Arcadia's Choice of Tarnpirr
80	Princess Lily of Comely Banks	Finn Bros. ..	,,	5,703	5·29	301·57	Lily's Lad of Holmwood

JUNIOR 2 YEAR OLD. (UNDER 2½ YEARS.) 200 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb	
81	Madge of Cathcart ..	A. W. Gorman ..	Ayrshire	6,373	4·70	299·17	Inquisitor of Ben Kell
82	Carnation of Methven ..	C. Deverell ..	Jersey	6,520	4·58	298·31	Alloy of Banyule
83	Bolobek Fanny ..	O. J. Syme ..	Friesian	9,073	3·29	298·26	Colantha Van Wild Rose
84	Florrie 2nd of Warenda	T. Mesley ..	Jersey	4,279	6·96	297·94	Choirmaster of Warenda
85	Bolobek Mab ..	O. J. Syme ..	Friesian	8,203	3·63	297·79	Colantha Van Wild Rose
86	Pearl of Swansea ..	E. A. Dennis ..	Jersey	5,955	5·09	297·69	Pearl's Twylish of Ferntree Vale
87	Dairy Lass of Ben Kell..	R. Ralston ..	Ayrshire	5,798	5·11	296·05	Ruff of Oakbank
88	Noorat Maggie ..	Mrs. A. Black ..	Jersey	5,430	5·44	295·61	Best Choice of Tarnpirr
89	Thelma of Roseleigh ..	H. V. McKay ..	Ayrshire	6,660	4·43	295·15	Fuchsia's Fredrick of Warrook
90	Airlie of Roseleigh ..	G. Gange ..	„	7,666	3·85	295·05	Fuchsia's Fredrick of Warrook
91	Princess 3rd of Grangelea	A. A. Broad ..	Jersey	5,809	5·08	295·00	Golden Twylish
92	Beatrice of Holbrook ..	A. E. Ellis ..	„	5,252	5·61	294·79	Tiny Tim of Kelburn
93	Daisy 2nd of Grangelea	A. A. Broad ..	„	4,901	6·00	293·85	Golden Twylish
94	Mercedes Neatest of Avalon	F. Austin ..	„	4,910	5·96	292·80	Mercedes Chief of Glen Iris
95	Bolinda of Linga Longa	Mrs. I. Beard ..	„	4,211	6·95	292·78	Dawn of Warenda
96	Hawthorn 9th of Banyule	C. G. Lyon ..	„	5,505	5·31	292·44	Lily 3rd's Prince of Ferntree Vale
97	Destiny of Jersey Meadows	Mrs. D. Stark ..	„	5,982	4·88	292·01	Emperor 2nd of Jerseyholm
98	Jessie 37th of Melrose ..	W. Woodmason ..	„	4,696	6·18	290·26	Golden Fern's Viscount
99	Lotus Queen of Whare Koa	J. L. Gardener ..	„	5,470	5·30	290·17	Retford Mourier Lad
100	Thora of Jersey Meadows	Mrs. D. Stark ..	„	4,489	6·44	289·28	Emperor 2nd of Jerseyholm
101	Edna of Langley Park ..	Callery Bros. ..	Ayrshire	5,699	5·07	288·97	X Ray of Gleneira
102	Linda 57th of King's Vale	J. Anderson, junr...	Jersey	4,928	5·81	287·86	Jessemia's Imperial 5th of King's Vale
103	Holly of Longerenong ..	Longerenong Agricultural College	Ayrshire	7,053	4·07	286·88	Life Buoy of Longerenong
104	Dunalister Perree's Noble Myrtle	D. Peter	Jersey	4,884	5·87	286·54	Perree's Duke
105	Lady Grey 23rd of St. Albans	J. J. Baker ..	„	4,783	5·99	286·41	King 3rd of St. Albans
106	Lantana's Superior of Methven	C. Deverell ..	„	4,121	6·91	284·67	Superior V.C. of Tarnpirr
107	Lily Langtry of Rainga	P. H. Lawrence ..	„	4,371	6·51	284·53	Kewpie of Warenda
108	Ditny of Clarendon Eyre	A. A. Richardson ..	„	4,703	6·05	284·49	Daisy 3rd's Twylish of Clarendon Eyre
109	Valda of Comely Banks	Finn Bros. ..	„	4,850	5·86	284·38	Beauty's Lad
110	Dunalister Mannikin's Garantie	A. E. Fewster ..	„	4,844	5·86	283·93	Mannikin of Glen Iris
111	Jenny Lind 18th of Melrose	W. Woodmason ..	„	5,221	5·41	282·61	Golden Fern's Viscount
112	Victoria Bellata ..	Department of Agriculture	Red Poll	6,412	4·41	282·60	Belligerent
113	Chevy 15th of Melrose	W. Woodmason ..	Jersey	5,247	5·35	280·66	Jessie 13th's Count of Melrose
114	St. Albans Queen of Geelong	A. W. Jones and Son	Friesian	8,489	3·30	279·85	Rosevale Korndyke Colantha
115	Cloudy of Linga Longa	Mrs. I. Beard ..	Jersey	5,124	5·45	279·34	Dawn of Warenda
116	Foxglove of Comely Banks	Finn Bros. ..	„	4,245	6·55	278·15	Lily's Lad of Holmwood
117	Model of Ayrbrae ..	McFarlane Bros. ..	Ayrshire	6,469	4·30	277·94	New Chum of Sparrovale
118	Lily of Roseneath ..	R. Goodman ..	„	7,052	3·91	277·59	Provider of Willow Vale
119	Gaiety Girl 14th of Melrose	M. Lyons ..	Jersey	5,091	5·44	276·98	Golden Fern's Viscount
120	Cream Girl of Aveley ..	H. Luxton ..	„	5,275	5·20	274·26	Cream Boy of Somerville
121	Pledge of Ben Kell ..	R. Ralston ..	Ayrshire	5,595	4·90	273·97	Poppy's Advance of Ben Kell
122	Burnbank Inka Sylvia Amethyst	Flack and Sewell ..	Friesian	5,665	4·83	273·75	Rosevale Inka Burkeyje
123	Alfalfa of Springhurst ..	J. D. Read ..	Jersey	5,313	5·15	273·38	Superior V.C. of Tarnpirr
124	May Queen 2nd's Grand Daughter	A. W. Jones and Son	Friesian	8,054	3·39	273·35	Westmere Prince Mercedes
125	Moss Vale Japonica Rose	L. L. Russell ...	„	6,514	4·19	273·09	Victoria Dinkum Patch
126	Blanche of Carracoorte	W. Henderson ..	Ayrshire	6,097	4·44	270·93	Lord Dudley of Gowrie Park
127	Molly 3rd of Bellaire ..	A. Fixter, junr. ..	Jersey	4,986	5·43	270·53	Eureka of Banyule
128	Blanche 2nd of Willow Park	W. K. Atkinson ...	Shorthorn	6,772	3·99	270·29	Stratagem of Willow Park
129	Pearl of Roseleigh ..	G. Gange ..	Ayrshire	6,297	4·28	269·81	Fuchsia's Fredrick of Warrook
130	Daphne of Jersey Vale..	Mrs. L. Orchard ..	Jersey	4,525	5·91	268·65	Choice 2nd of Tarnpirr
131	Stockings Princess of Glen Iris	C. D. Lloyd ..	„	5,068	5·28	267·67	Mercedes Prince of Glen Iris

JUNIOR 2 YEAR OLD. (UNDER 2½ YEARS.) 200 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
132	Burnbank Inka Sylvia Muller	Flack and Sewell ..	Friesian	6,511	4·10	266·99	Rosevale Inka Burkeyje
133	Sparkle 6th of Jerseyholm	T. Harvey ..	Jersey	4,941	5·40	266·84	New Alliance of Jerseyholm
134	Victoria Elite	Department of Agriculture	Red Poll	6,332	4·21	266·71	Vice Regal
135	Heroine of Spring Vale ..	R. C. Campbell ..	Jersey	4,804	5·54	266·38	Sweet Fox of Spring Vale
136	Viola 5th of Carracoorte	W. Henderson ..	Ayrshire	5,821	4·5	266·10	Lord Dudley of Gowrie Park
137	Green Vale Pet	J. Plattfuss ..	Friesian	6,973	3·81	265·76	Victoria Rose Patch
138	Goldfinch 2nd of Grangelea	A. A. Broad ..	Jersey	5,075	5·24	265·69	Goldon Twylish
139	Morocco's Linda of Rainga	P. H. Lawrence ..	,,	5,768	4·60	265·57	Linda's Record 6th of Kings Vale
140	Beauty 6th of Somerville	S. Earle	,,	5,541	4·79	265·14	Cream Bay of Somerville
141	Noorat Sunshine ..	Mrs. A. Black ..	,,	5,023	5·27	264·92	Best Choice of Tarnpirr
142	Sweet Fern of Glen Iris	C. D. Lloyd ..	,,	4,371	6·05	264·51	Sweetbread's Duke of Glen Iris
143	Lady Grey 25th of St. Albans	J. J. Baker ..	,,	4,919	5·35	263·36	Brighton King 8th
144	Snow Queen of Willis Vale	G. Dwyer ..	,,	5,277	4·97	262·52	Niphetos Twylish of Willis Vale
145	My Hope 2nd of Lynnuig	E. A. Dennis ..	,,	3,980	6·58	261·72	Tiny's Treasure of Tarnpirr
146	Queen Mab 2nd of Hill Crest	A. Joshua ..	,,	4,286	6·08	260·43	Retford Peer
147	Alice of Holly Green ..	H. L. Webb ..	Ayrshire	6,250	4·16	259·84	Headlight of Holly Green
148	Gipsy Love of Woodside	C. D. Lloyd ..	Jersey	6,111	4·24	259·33	Goldfinder
149	Pauline 4th of Ashby ..	Dickinson Bros. ..	Friesian	7,508	3·45	259·06	Bolobek General
150	Myra of Holly Green ..	H. L. Webb ..	Ayrshire	6,191	4·18	258·76	Headlight of Holly Green
151	Princess Ida of Cloverfield	A. Schlipalieus ..	Jersey	4,936	5·24	258·74	Glenrenard
152	Daisy Belle of Whare Koa	J. L. Gardener ..	,,	5,295	4·88	258·47	Retford Mourier Lad
153	Burnbank Springfield La Polka	Red Cross Farm ..	Friesian	6,066	4·26	258·38	Springfield Inka
154	Ozone of Terara ..	H. Luxton ..	Jersey	4,661	5·53	257·84	Carnegie of Terara
155	Burnbank Inka Segis Bercham	Flack and Sewell ..	Friesian	6,151	4·19	257·64	Alderly Segis Beets
156	Modesty of Holly Green	H. L. Webb ..	Ayrshire	5,971	4·31	257·46	Headlight of Holly Green
157	Moss Vale Dimple ..	L. L. Russell ..	Friesian	6,993	3·68	257·19	Burnbank Inka Segis Sultan
158	Peerless of Leathorne ..	Gibson Bros. ..	Jersey	3,980	6·54	256·75	Annettis Chief 2nd of Linden
159	Mernda of Longerenong	Longerenong Agricultural College	Ayrshire	6,624	3·87	256·54	Merman of Longerenong
160	Dairyman's Daisy of Grand Pre	S. H. Ebery ..	Shorthorn	5,634	4·53	255·07	Dairyman of Willow Park
161	Cora of Jerseyvale ..	Mrs. L. Orchard ..	Jersey	4,913	5·16	253·52	Choice 2nd of Tarnpirr
162	Mercedes Buttercup 3rd of Avalon	F. Austin ..	,,	4,489	5·64	253·35	Mercedes Chief of Glen Iris
163	Memorie of Langley Park	Callery Bros. ..	Ayrshire	6,334	3·98	252·15	Haughty Lad of Langley Park
164	Burnbank Pietertje Topsy	Flack and Sewell ..	Friesian	5,554	4·54	252·01	Prince Pietertje of Bainfield
165	Mercedes Buttercup 2nd of Avalon	F. Austin ..	Jersey	4,411	5·67	251·70	Mercedes Chief of Glen Iris
166	Sylvia of Franklin Park	W. A. Sandles ..	,,	4,407	5·71	251·52	Monash of Melrose
167	Lady Grey 24th of St. Albans	A. W. Jones and Son	,,	4,844	5·18	251·04	King 3rd of St. Albans
168	Iris 4th of Carracoorte	W. Henderson ..	Ayrshire	4,601	5·45	250·65	Lord Dudley of Gowrie Park
169	St. Albans Netherland Rose	A. W. Fox ..	Friesian	7,353	3·39	249·27	Westmere Prince Mercedes
170	Merry Lass of Hill Crest	D. C. Miller ..	Jersey	4,810	5·17	248·49	Retford Peer
171	Brownie 6th of Carracoorte	W. Henderson ..	Ayrshire	5,040	4·90	247·00	Lord Dudley of Gowrie Park
172	Audrey of Roseleigh ..	G. Gange ..	,,	5,281	4·67	246·72	Fuchsia's Fredrick of Warrook
173	Lady Grey 27th of St. Albans	A. W. Jones and Son	Jersey	4,557	5·41	246·62	Cheverell of Banyule
174	Queen of Ayrbrae ..	McFarlane Bros. ..	Ayrshire	5,846	4·21	246·34	Harmonist of Ellerslie
175	Ruby of Langley Park	Callery Bros. ..	,,	5,588	4·36	245·67	X Ray of Gleneira
176	Lotus 2nd of Banyule ..	C. G. Lyon ..	Jersey	4,110	5·97	245·24	Milkmaid's Chief of Banyule
177	Duchess of Welbourne	G. Rowe ..	,,	4,882	4·99	243·74	Beauty's Prince of Somerville
178	Burnbank Dutch Princess	Flack and Sewell ..	Friesian	5,206	4·65	242·61	Prince of Coralee
179	Woodnymph of Woodside	Miss S. L. Robinson	Jersey	4,294	5·65	242·52	Benediction's Nobleman
180	June of Woodside ..	Miss S. L. Robinson	,,	5,443	4·44	242·17	Renown of Woodside
181	Flowing Vale Gracie ..	Evans Bros. ..	Red Poll	5,751	4·21	242·10	Flowing Vale Redmond
182	Choirmaster's Queen of Rainga	P. H. Lawrence ..	Jersey	4,136	5·84	241·74	Choirmaster of Banyule
183	Dainty of Willow Park ..	W. K. Atkinson ..	Shorthorn	5,864	4·10	240·46	Havelock of Darbalara
184	Melody of Holly Green ..	H. L. Webb ..	Ayrshire	5,042	4·76	239·85	Headlight of Holly Green
185	Belle 2nd of Mona Bank	R. Faragher ..	Jersey	4,493	5·31	239·36	Foxy of Tarnpirr
186	Kyora Velveteen 2nd ..	Miss S. L. Robinson	,,	4,587	5·21	239·16	Werribee Wyandotte Fancy
187	Viola 4th of Carracoorte	W. Henderson ..	Ayrshire	5,450	4·38	238·70	Lord Dudley of Gowrie Park
188	Betsy 10th of Carracoorte	W. Henderson ..	,,	4,977	4·79	238·44	Lena's Fritz of Carracoorte

JUNIOR 2 YEAR OLD. (UNDER 2½ YEARS.) 200 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test	Butter Fat.	Sire.
				lb.		lb	
189	Royal Rose of the Valley	Mrs. E. M. Lennie ..	Jersey	4,341	5·49	238·19	Foxglove of the Valley
190	Daphne of Swansea ..	E. A. Dennis ..	,,	4,759	5·00	238·03	Alloy of Banyule
191	Leaflet of Medburn Grove	C. Bamford ..	Ayrshire	4,963	4·80	237·72	Macadam of Gowrie Park
192	Filpail 8th of Caracoorte	W. Henderson ..	,,	5,032	4·70	236·59	Lena's Fritz of Carracoorte
193	Maisie of Ayrbrae ..	McFarlane Bros. ..	,,	5,599	4·21	235·68	Harmonist of Ellerslie
194	Princess of Catheart ..	A. W. Gorman ..	,,	5,494	4·28	235·40	Lavendo of Glencairn
195	Picture of Ayrbrae ..	McFarlane Bros. ..	,,	5,655	4·16	235·33	New Chum of Sparrovale
196	Beauty of Peerallilea ..	Baillieu Bros. ..	Jersey	4,521	5·18	234·33	Tally Ho Twylish Lad
197	Scotswood Adeline ..	A. H. Schier ..	Ayrshire	5,294	4·43	234·30	Bellboy of Oakbank
198	Leonie 3rd of Clarendon Eyre	A. A. Richardson ..	Jersey	4,163	5·62	233·91	Daisy 3rds Twylish of Clarendon Eyre
199	Coral 6th of Carracoorte	W. Henderson ..	Ayrshire	5,017	4·66	233·59	Lena's Fritz of Carracoorte
200	Peony of Carracoorte ..	W. Henderson ..	,,	5,498	4·25	233·50	Lord Dudley of Gowrie Park
201	Kyora Merry Mikes Mayflower 2nd	Miss S. L. Robinson	Jersey	4,271	5·47	233·49	Lotinas Mike
202	Wistaria of Longerenong	Longerenong Agricultural College	Ayrshire	5,019	4·65	233·21	Life Buoy of Gowrie Park
203	Filpail 9th of Carracoorte	W. Henderson ..	,,	5,900	3·95	232·97	Problem of Willow Vale
204	Rosebud of Aberdour ..	Alston Estate ..	Jersey	3,849	6·05	232·95	Bouquet of Tarnpirr
205	Verbena of Ayrbrae ..	McFarlane Bros. ..	Ayrshire	5,032	4·62	232·47	Harmonist of Ellerslie
206	Fennella 7th of Carracoorte	W. Henderson ..	,,	5,271	4·40	232·03	Lord Dudley of Gowrie Park
207	Sunlight of Roseleigh ..	G. Gange ..	,,	5,794	4·00	231·84	Fuchsia's Frederick of Warrook
208	Lady Choice of Glenwood	W. Tendeson ..	Jersey	3,500	6·60	231·60	Lotus King of Staghorn
209	Tulip 2nd of the Valley	Mrs. E. M. Lennie ..	,,	5,022	4·58	228·94	Foxglove of the Valley
210	Belle of Langley Park ..	Callery Bros. ..	Ayrshire	4,888	4·68	228·81	X Ray of Glenelra
211	Duchess of Woodstock Grange	H. D. W. Canobio ..	,,	5,791	3·95	228·66	Robin of Wethersdane
212	Rose of Franklin Park ..	W. A. Sandles ..	Jersey	3,904	5·85	228·37	Neat Lad of Kirkhill
213	Attraction of Perralilica	Baillieu Bros. ..	,,	4,186	5·45	228·01	Tally Ho Twylish Lad
214	Doris 2nd of Greenvale	J. Plattfuss ..	Friesian	4,834	4·71	227·69	Victoria Rose Patch
215	Wanda of Ben Kell ..	R. Ralston ..	Ayrshire	4,797	4·73	227·08	Ruff of Oakbank
216	Cora of Elouera ..	Miss H. C. Ralcigh	Jersey	3,886	5·83	226·60	Lilly's Lad of Holmwood
217	Lady Grey 22nd of St. Albans	T. R. Findlay ..	,,	4,567	4·96	226·41	Brighton King 8th
218	Jubilee Aster ..	Miss B. B. Reid ..	,,	2,905	7·79	226·36	Goddington Winks 6th
219	Minerva's Balm 4th of Carracoorte	W. Henderson ..	Ayrshire	4,628	4·83	223·46	Lord Dudley of Gowrie Park
220	Flowing Vale Peachette	Evans Bros. ..	Red Poll	5,134	4·35	223·12	Dinkum Astrologer
221	Betty of Woodside ..	Miss S. L. Robinson	Jersey	3,955	5·64	222·99	Champion of Woodside
222	Burnbank Inka Segis Coringa	Flack and Sewell ..	Friesian	7,362	3·02	222·53	Alderly Segis Beets
223	Pet of Langley Park ..	Callery Bros. ..	Ayrshire	5,232	4·24	221·95	Chieftain of Langley Park
224	Clover 3rd of Mona Bank	R. Faragher ..	Jersey	3,412	6·24	219·97	Marlborough of Melrose
225	Lizzie of Carracoorte ..	W. Henderson ..	Ayrshire	4,767	4·59	218·91	Lord Dudley of Gowrie Park
226	Jacqueline's Lily of Hill Green	H. G. Lyon ..	Jersey	3,630	6·01	218·34	Lily's Lad of Holmwood
227	Brownie 7th of Carracoorte	W. Henderson ..	Ayrshire	4,447	4·90	217·77	Lord Dudley of Gowrie Park
228	Fairy Queen 2nd of Spring Vale	R. C. Campbell ..	Jersey	3,935	5·52	217·12	Sweet Fox of Spring Vale
229	Gaiety Girl 15th of Melrose	W. Woodmason ..	,,	3,783	5·70	216·99	Jessie 13th's Count of Melrose
230	Fancy of Roseneath ..	R. Goodman ..	Ayrshire	5,377	4·03	216·90	Selkirk of Roseneath
231	Beauty 6th of Carracoorte	W. Henderson ..	,,	4,420	4·90	216·63	Lord Dudley of Gowrie Park
232	Prima Donna of Cloverfield	A. Schlipalius ..	Jersey	4,039	5·34	215·65	Jessie 13th's Count of Melrose
233	Scotswood Duchess ..	A. H. Schier ..	Ayrshire	4,365	4·94	215·64	Bellboy of Oakbank
234	Queen of Avalon ..	F. Austin ..	Jersey	3,560	6·02	214·42	Maiden's Defender of Koorawatha
235	Comet of Willow Park ..	W. K. Atkinson ..	Shorthorn	5,662	3·79	214·31	Stratagem of Willow Park
236	Roma 2nd of Grangelea	A. A. Broad ..	Jersey	3,520	6·07	213·81	Golden Twylish
237	Ada 4th of Carracoorte	W. Henderson ..	Ayrshire	4,669	4·56	212·82	Lord Dudley of Gowrie Park
238	Ginger Princess of Glen Iris	C. D. Lloyd ..	Jersey	3,647	5·84	212·82	Perree's Duke
239	Lena 3rd of Carracoorte	W. Henderson ..	Ayrshire	4,264	4·98	212·23	Problem of Willow Vale
240	Empire 10th of Melrose	J. Phillips ..	Jersey	3,682	5·76	212·09	Golden Fern's Viscount
241	Hyacinth of Jersey Vale	Mrs. L. Orchard ..	,,	3,673	5·77	212·03	Choice 2nd of Tarnpirr
242	Gladness of La Trobe ..	Sale High School ..	Ayrshire	5,132	4·10	210·38	Juan of Oakbank
243	Silver Pearl of Glenwood	W. Tendeson ..	Jersey	3,410	6·17	210·23	Lotus King of Staghorn
244	Pearl of Woodstock Grange	H. D. W. Canobio ..	Ayrshire	5,137	4·07	209·25	His Majesty of Wethersdane
245	Thornhill Sheila ..	J. F. Keating ..	Red Poll	5,598	3·73	208·94	Banzai
246	Joybell 2nd of Ballara ..	F. Trevaskis ..	Jersey	3,463	6·01	208·20	Silver Boy of Woringa
247	Ringlet of Sparrovale ..	Geelong Harbour Trust	Ayrshire	4,645	4·48	207·93	Jellicoe of Sparrovale
248	Pansy of Liscard ..	C. W. Macauley ..	Jersey	3,631	5·69	206·48	Baron of Liscard
249	Burnbank Inka Sylvia Mercedes	Flack and Sewell ..	Friesian	5,401	3·82	206·26	Rosevale Inka Burkeyje

JUNIOR 2 YEAR OLD. (UNDER 2½ YEARS.) 200 LB. STANDARD—*continued.*

Order of Merit.	Name.	Owner.	Breed.	Milk.	Average Test.	Butter Fat.	Sire.
				lb.		lb.	
250	Titchie of Tregorland ..	J. F. Tuckey ..	Ayrshire	4,298	4·78	205·24	Larus of Gowrie Park
251	Pimpernel of Sparrovale	Geelong Harbour Trust	,,	4,646	4·42	205·24	Scottish King of Gowrie Park
252	Scotswood Belle ..	A. H. Schier ..	,,	5,223	3·91	204·27	Comrade of Fassifern
253	Sylvan Grey of Leven Brae	T. R. Findlay ..	Jersey	4,181	4·88	204·19	Twylish Fox of Colac
254	Luxury of Esperanza ..	Miss S. L. Robinson	,,	3,307	6·16	203·83	Werribee Wyandotte Fancy
255	Pearl of Jerseyvale ..	Mrs. L. Orchard ..	,,	4,231	4·73	202·45	Choice 2nd of Tarnpirr
256	Fennella 9th of Carracoorte	W. Henderson ..	Ayrshire	4,560	4·44	202·31	Lord Dudley of Gowrie Park
257	Rosebud of Kirkhill ..	D. C. Miller ..	Jersey	3,908	5·17	202·04	Linda's Record 6th of Kings Vale
258	Princess of Glenalwyn ..	K. M'Garvie ..	,,	3,699	5·44	201·18	Prince Renard
259	Pearl 4th of Carracoorte	W. Henderson ..	Ayrshire	4,109	4·88	200·28	Lord Dudley of Gowrie Park
260	Bloom of Carracoorte ..	W. Henderson ..	,,	4,185	4·80	200·16	Lord Dudley of Gowrie Park
261	Amy of Sparrovale ..	Geelong Harbour Trust	,,	4,234	4·64	196·64	Kenilworth of Sparrovale
262	Mavis of Wattle Bank ..	A. Kirby ..	,,	4,858	4·04	196·18	Lieutenant of Gowrie Park
263	Poppy of Jerseyvale ..	Mrs. L. Orchard ..	Jersey	4,467	4·41	196·05	Choice 2nd of Tarnpirr
264	Scotswood Myra ..	A. H. Schier ..	Ayrshire	4,326	4·52	195·77	Comrade of Fassifern
265	Jubilee Orange Blossom	G. Esler	Jersey	3,849	5·04	193·94	Jubilee Flashlight
266	Yarra Brae Inka Segis Ashlyn	F. J. McGalliard ..	Friesian	6,445	2·99	192·90	Alderley Segis Beets
267	Rosebud of Jersey Vale	P. J. Ducat ..	Jersey	3,522	5·38	189·36	Choice 2nd of Tarnpirr
268	Scotswood Reason ..	A. H. Schier ..	Ayrshire	5,001	3·78	188·97	Roderick of Inverleigh
269	Stylish of Ayrbrae ..	McFarlane Bros. ..	,,	4,214	4·48	188·76	Harmonist of Ellerslie
270	Kin of Tregorland ..	J. F. Tuckey ..	,,	4,238	4·44	188·08	Larus of Gowrie Park
271	Adella of Hyde Park ..	Telford Bros. ..	,,	3,779	4·86	183·53	Elsdon of Willow Vale
272	Lady Grey 32nd of St. Albans	M. H. Hearn ..	Jersey	3,585	5·11	183·30	King 3rd of St. Albans
273	Calla of Methven ..	C. Deverell ..	,,	3,465	5·27	182·53	Beau of Springhurst
274	Coralloid of Comely Banks	Mrs. D. Stark ..	,,	2,949	6·18	182·30	Beauty's Lad
275	Mercedes Sweet Queen of Glen Iris	C. D. Lloyd ..	,,	3,681	4·93	181·55	Chief Bread of Glen Iris
276	Mignonette of Sparrovale	Geelong Harbour Trust	Ayrshire	3,910	4·63	181·02	The Laird of Sparrovale
277	Nellie of Springfield ..	H. V. McKay ..	,,	4,227	4·24	179·36	Royal Prince of Gleneira
278	Adeline of Osborne Park	H. D. W. Canobio..	,,	4,023	4·38	176·14	Trevor of Gowrie Park
279	Melville Beauty of Carracoorte	W. Henderson ..	,,	3,771	4·64	175·12	Lord Dudley of Gowrie Park
280	Margaret's Choice of Somerset	A. E. Batson ..	Jersey	3,383	5·16	174·37	Lord Silvermine 8th of Banyule
281	Flowing Vale Nancy 5th	Evans Bros. ..	Red Poll	4,378	3·97	173·63	Dinkum Astrologer
282	Gladys of Netherbrae ..	C. L. Rigby ..	Ayrshire	4,438	3·90	172·83	Tarbolton of Oakbank
283	Lucy 4th of Carracoorte	W. Henderson ..	,,	3,387	5·08	171·91	Lord Dudley of Gowrie Park
284	Rosalind of Sparrovale..	Geelong Harbour Trust	,,	3,541	4·81	170·54	The Laird of Sparrovale
285	Victoria Virgilia ..	Department of Agriculture	Red Poll	4,061	4·20	170·44	Vice Regal
286	Karong Rose 7th ..	J. Baker ..	,,	3,777	4·49	169·65	Uncle Sam
287	Margaret's Favorite of Somerset	A. E. Batson ..	Jersey	2,959	5·69	168·33	Lord Silvermine 8th of Banyule
288	Gipps Eumea ..	Warragul High School	Red Poll	4,021	4·08	164·28	Warragul
289	Burnbank Princess Bonnie	Red Cross Farm ..	Friesian	4,075	3·94	160·44	Prince of Coralee
290	Muriel's 2nd Joy of Somerset	A. E. Batson ..	Jersey	2,681	5·85	156·88	Lord Silvermine 8th of Banyule
291	Karong Rose 6th ..	J. Baker ..	Red Poll	3,668	4·25	155·74	Uncle Sam
292	Goldmine of Somerset ..	A. E. Batson ..	Jersey	3,078	5·06	155·68	Lord Silvermine 8th of Banyule
293	Heather of Riverdale ..	N. Gange ..	Ayrshire	3,727	4·12	153·40	Harry of Gleneira
294	Clover 2nd of Mona Bank	R. Faragher ..	Jersey	2,653	5·78	153·24	Foxie of Tarnpirr
295	Choice of Hill Crest ..	M. & W. A. Francis	Ayrshire	2,884	5·30	152·81	Victor of Warrook
296	Scotswood Mignonette ..	A. H. Schier ..	,,	3,210	4·72	151·38	Bellboy of Oakbank
297	Tragedy of Goldfield ..	F. W. Beischer ..	Jersey	2,683	5·60	150·23	Assayer of Banyule
298	Oatlands Margaret ..	J. H. Thorburn ..	Ayrshire	3,277	4·46	146·15	Captain of Medburn Grove
299	Coral of Hyde Park ..	Telford Bros. ..	,,	2,977	4·88	145·28	Elsdon of Willow Vale
300	Lady Marge 3rd of Somerset	A. E. Batson ..	Jersey	2,782	5·15	143·38	Lord Silvermine 8th of Banyule
301	Scotswood Super Quality	A. H. Schier ..	Ayrshire	3,236	4·42	143·05	Bellboy of Oakbank
302	Doreen of Jersey Vale ..	Mrs. L. Orchard ..	Jersey	2,634	5·15	135·59	Choice 2nd of Tarnpirr
303	Nancy 3rd of Somerset..	A. E. Batson ..	,,	2,862	4·68	133·89	Lord Silvermine 8th of Banyule
304	Violet's Queen of Wattle Bank	A. Kirby ..	Ayrshire	2,709	4·80	130·13	Lieutenant of Gowrie Park

SOUTH AUSTRALIAN AGRICULTURAL BUREAU SYSTEM.

By D. H. Adams, Dairy Supervisor.

The following notes on the method of propaganda for the advancement of agricultural knowledge in South Australia, known as the Agricultural Bureau System, and which has been of great benefit in that State, will, it is hoped, be of interest to agriculturists and others in Victoria.

The system had its origin in a suggestion of the late Mr. Albert Molineux in the year 1888, so it is now in its thirty-eighth year. The then South Australian Government adopted Mr. Molineux's suggestion and a set of tentative regulations for the working of the Bureau was drawn up. These regulations were as follow:—

"The Bureau shall consist of nine or more members, and be designated 'The Central Agricultural Bureau of South Australia.'

"The Bureau shall have power to nominate corresponding district Bureaux.

"The Bureau will collect and publish by means of the press, and with the aid of the District Bureaux, information of every kind calculated to prove beneficial to the colonists engaged in agricultural, horticultural, pastoral, and other pursuits connected with the cultivation of the soil, such as—

"(*a*) The suitability of the various districts of the Colony (in regard to soil, situation, aspect, &c.) for the growth or production of plants, animals, &c.

"(*b*) Information obtained respecting plants, animals, products, &c., likely to prove of value to cultivators.

"(*c*) The best method of cultivating various kinds of crops, and of breeding and feeding domestic animals and of improving the same.

"(*d*) The methods of preparing and preserving various products for market, and discovery of markets for the products of the soil.

"(*e*) The collection of agricultural statistics, particularly as affecting the area under cultivation in each district; the number and breed of animals; the nature and condition of crops during each month; the times of sowing or planting, and harvesting; the average yield per acre of fruits, cereals, &c.; the cost of cultivating each kind of crop; and all information that might serve to guide intending settlers.

"(*f*) The collection of information respecting all kinds of pests affecting the farm, forest, garden or orchard, and vineyard.

"(*g*) To ascertain and suggest the best means of eradicating poisonous plants, and of combating the effects of disease or the ailments of domestic animals.

"(*h*) To prevent as far as possible the introduction and spread of such pests, and to induce colonists to give the earliest information concerning the appearance of previously unknown plants, or parasites on plants, or of diseases of animals, in order that the same may be at once identified and dealt with.

"(*i*) To publish when necessary bulletins, abstracts, and reports containing all such information as may be deemed desirable.

"(*j*) The District Bureau to be asked to give every assistance in their power in aid of the objects of the Agricultural Bureau."

Since the inauguration of the system changes have taken place in some of the conditions which existed at its beginning, but on the whole the main work has been carried on as laid down in the initiatory programme.

It was proposed to extend the Bureau system to country places, and that the several Bureaux established should work in harmony, and in some respects in co-operation, so as to bring about a strong influence in the matter of the general activities of agriculturists and other primary producers.

The control of the Bureau was during its first years in the hands of nine members. Later, however, the direction of affairs was assumed by the Advisory Board of Agriculture, which body exercises a sort of general control over the activities of the various branches.

These branches have increased from five in 1888, with a total membership of 53, to 221 with a membership of 6,182 in 1923. This increase proves the usefulness of the system.

The Advisory Board consists of as many members as the Minister of Agriculture may appoint. At present there are about eighteen members on it. These are principally men well known in the agricultural, horticultural, and stock-raising and scientific world. The special functions of the Board are to watch over and promote the interests of primary producers. It also advises the Minister of Agriculture on any matter which he may refer to it for their consideration and advice.

The Board, or maybe a sub-committee appointed by the Board, pays visits to experimental farms and other governmental concerns about whose activities it may be able to advise the Minister.

Each year a congress of representatives of the various Agricultural Bureaux meets in Adelaide. In addition to this central congress, conferences are held in eleven country centres, when there is no limit to the number of representatives who may attend.

Meetings of branches are held monthly, sometimes at the local hall and sometimes at a member's home. An agenda is prepared for each meeting, and a report of it is sent to the secretary of the Advisory Board; copies of any papers read are also sent, and occasionally some of these are published in the *Journal of Agriculture*, either verbatim or in part. Branch Bureaux often arrange tours of their district so that members may investigate farming methods and study the stock and machinery and other features of importance to them.

One of the activities of the Bureau system is the promoting and carrying out of pruning competitions in districts where vine growing and fruit culture are the chief occupations of the people. Rules for the guidance of competitors and the judges are laid down by the Bureau, and certificates are awarded the best pruners. Another branch of the work of the Bureau system is crop and farm competitions. Assistance is given in these cases by the Government by finding competent judges.

Other branches of the work of the Bureau are field trials of horticultural implements and machinery, and "Winter Schools" for farmers at Roseworthy Agricultural College. To assist the dissemination of knowledge there is a reference library at the Department of Agriculture.

In 1917 a "Women's Branch" of the Bureau was opened at Riverton, and several other such branches have been opened since then. At the meetings of the women's branches the subjects dealt with are

chiefly poultry, dairying, vegetable and flower gardens, the home and its adornment and furnishing, domestic economy for girls, laundry work, jam making, and so on.

So far only a moderate number of women's branches are in operation, but it is more than likely the number will soon be very much increased, especialy as a strong impetus to the study of agriculture and domestic economy has been given by the teaching of these subjects to a larger extent than formerly in the public schools of the State.

To summarize the work of the South Australian Agricultural Bureaux—

(1) They have been of inestimable benefit to the primary producers of the State.

(2) Their work has probably saved many of the farmers and producers from ruin, by their specialized activities.

(3) They have provided a stimulus to increased activities in the primary producers' world; and

(4) They have been to some extent the envy of primary producers in other States.

The system has therefore been very successful. It may not be altogether suitable for adoption in its entirety elsewhere. Much of the work carried out by the South Australian Bureaux is, of course, being done in other places by Agricultural Societies. In most districts, however, these societies go their own way, while under the South Australian Bureau system the several branches with kindred interests are able to work in co-operation.

ORCHARD NOTES FOR OCTOBER.

E. E. Pescott, F.L.S., Pomologist.

The Orchard.

Spraying.

The peach aphis will now have made its appearance in orchards which were not sprayed with the red oil emulsion in the winter. The tobacco solution will now be required, and this may be sprayed on as strongly as the grower wishes. If possible, a second spraying should be repeated quickly after the first operation, so as to kill any aphides previously protected by the others, or any that may have only been weakened by the first operation.

The time has also arrived when spraying is needful for the prevention of all fungus diseases, such as shothole or scab, black spot, leaf rust, leaf curl, &c. In the case of these pests, "prevention better than cure" is the invariable rule; and to delay beyond the correct period the application of the necessary sprays is to court disaster. For black spot of the apple and pear, the spraying should be performed as soon as the earliest flowers are opening. For shothole and scab the time to spray is before the flower petals expand; and the spraying may be repeated, if necessary, after the fruit has set.

For rust and leaf curl the spray should be applied before any sign of the trouble appears on the foliage; thus, if the fungus were present during the previous season, it will be necessary to spray early to combat it successfully.

The basis of all the successful fungicides is sulphate of copper or bluestone. Bordeaux mixture (a mixture of bluestone, lime, and

water, known as the 6.4.40 formula), is used; the materials and quantities being 6 lb. bluestone, 4 lb. lime, and 40 gallons water.

Another spray, and in some locations equally successful in its results as the Bordeaux mixture, is the copper-soda spray, the proportions being 6 lb. bluestone, 8 lb. washing soda, and 40 gallons of water. In each case the materials should be separately dissolved, and then evenly and simultaneously mixed in a third vessel.

It is very urgent that the lime should be thoroughly fresh and quick, otherwise the spray mixtures will give very inferior results. A second necessary point is that the copper sprays should be used as soon as they are made. Where the grower does not wish to make his own spray, there are quite a number of ready-made Bordeaux pastes and Bordeaux mixtures already on the market, which can be used with satisfactory results. In fact, the use of these has become fairly general, and it is not now the practice for growers to make their own sprays.

General.

It is most important that ploughing should be completed as early as possible. In the past, it has very frequently happened that, owing to delaying the ploughing, the orchard and the fruit crop have both suffered very considerably. It is absolutely necessary to cultivate the surface early, to take advantage of the moist surface and consequent easy ploughing; and also to conserve as large an amount of moisture in the soil as possible. The longer the ploughing is delayed, the less amount of moisture is retained in the soil for summer use. Deferred ploughing certainly means dry soil, enfeebled trees, and diminished results. Early ploughing gives exactly opposite results; the earlier the ploughing, the more soil water is conserved.

When the ploughing is completed, the clods should be crushed, and the land harrowed, so that a fine earth mulch may be obtained. The orchard surface should be kept as level as possible, and no irregular ridging or furrows should be allowed.

All cover crops planted to supply humus to the soil should now be ploughed in. If the plants are of a leguminous nature, the best time to plough these in is when they are in full flower. If the growth has been at all excessive or rank, the crop may be rolled before ploughing; or it may be cut or mowed with a mowing machine. Every care should be taken that the plants should be distributed evenly over the ground, and large quantities in a mass should not be ploughed under. Artificial and stable manures may also be given to the trees at this time. These should be applied before ploughing.

Grafting.

The work of grafting should be completed early in the month. The most useful method of re-working old trees is to cut the head right off, leaving only the stump. Then grafts can be put in according to the fancy of the grower. The old method of cleft grafting has been superseded by the bark or crown graft. The latter method does not cause any damage to the wood and thus, with care, no rotting can take place. The best method of bark grafting is the saddle graft; that is, the graft is inserted in the bark and a strip of bark is carried right across the trunk and inserted in the bark on the opposite side. This method is much slower than the ordinary bark graft, but it insures a much quicker healing over the old stump.

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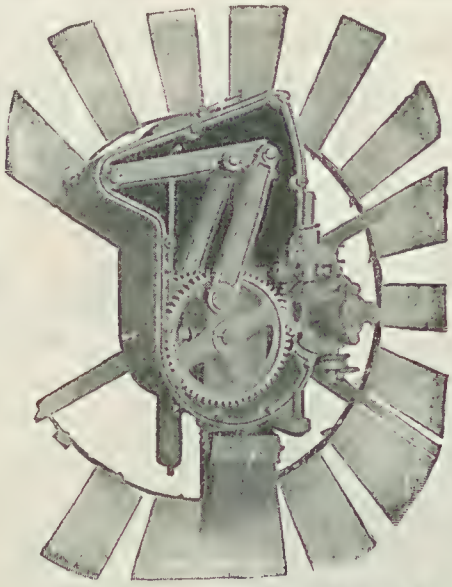

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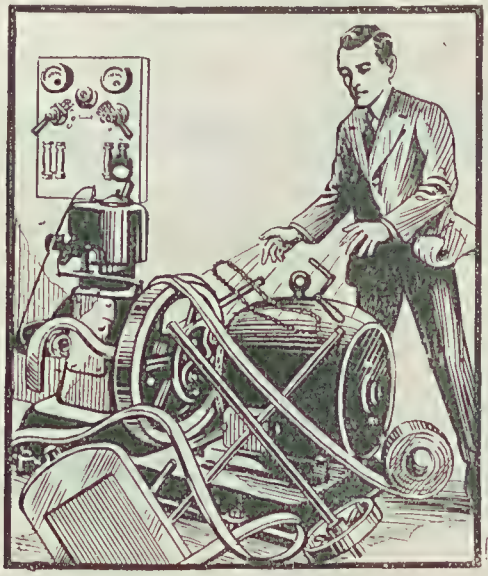

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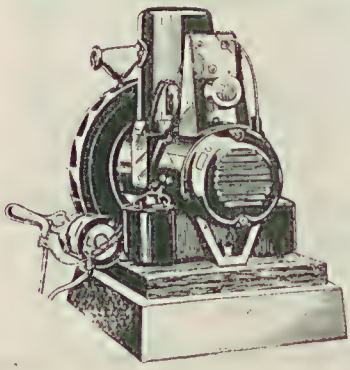

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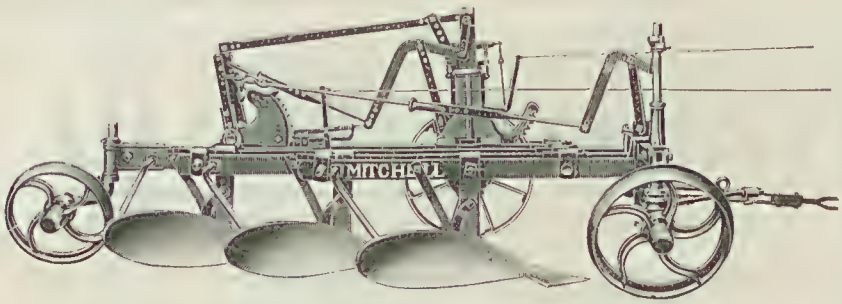

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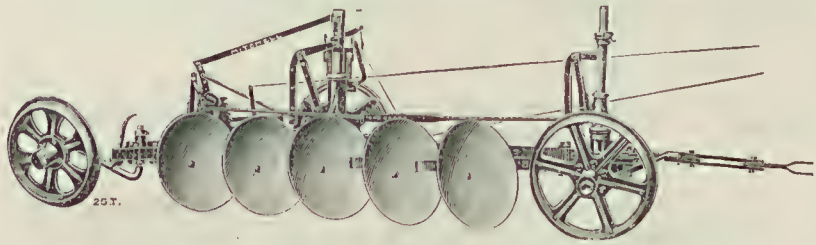

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Sire of Dam: **Oak de Kol 2nd Homestead Fobes** (imp. to N.Z. from America) (341 N.Z.F.H.B.).

Dominion Hyacinth's Record for 273 days under Government Herd Test—
11,512 lb. Milk, 479 lb. Butter Fat. Price, 40 guineas f.o.r. Werribee.

For Full Lactation Period—
13,898 lb. Milk, 589 lb. Butter Fat.

(2) Bull Victoria Patch Lad *ex* Victoria Oakdale Lassie (996)

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Sire: **Victoria Jo Patch (345)** by Longbeach Big Patch (515 N.Z.F.H.B.), *ex* Dominion Madrigal (371).

Sire of Dam: **Dominion Oakdale (342)** by Oak de Kol 2nd Homestead Fobes.

Her Dam, Dominion Proud Lassie's Record for 273 days under Government Herd Test—
11,336 lb. Milk, 3·42 Test, 387 lb. Butter Fat.
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Sire of Dam: **Woodcrest Jo** (imp. to N.Z. from America) (334 N.Z.F.H.B.).

Dam's Record for 273 days under Government Herd Test—
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The record of the dam—DOMINION MADRIGAL—of the sires "Victoria Songboy" and "Victoria Jo Patch" for 273 days under Government Herd Test is 11,373 lb. Milk, 3·93 Test, 448 lb. Butter Fat; and for Full Lactation Period 13,485 lb. Milk, 4·17 Test, 563 lb. Butter Fat. "DOMINION MADRIGAL" is a full sister to "DOMINION QUEEN MERCEDES," third cow of all breeds under Government Herd Test 1923, and Winner "Weekly Times" Butter Competition, Melbourne Royal Show 1923, and Champion Melbourne Royal Show 1923.

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Sire: **Victoria High Patch (537)** by Victoria Jo Patch (345).

Sire of Dam: **Dominion Domino Dutch Boy (73)** by Longbeach Primrose League (698 N.Z.).

Dam's Record for 273 days under Government Herd Test—
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(5) Bull Victoria Bridegroom *ex* Victoria Wedding Bell (999)

Dropped 18th September, 1924

Sire: **Burnbank Inka Segia Pietje (402)** by Alderley Segis Beets (imp.) (187).

Sire of Dam: **Victoria Milkman Jo (344)** by Woodcrest Jo (imp.) (344 N.Z.).

Dam's Record for 273 days under Government Herd Test: First Lactation Period—
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(For Record of Yields of dams see Red Poll Herd Book.)

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Sire: Nicotine (69 A.A.) by Acton Dewstone (imp.) 9524 (4 A.A.).
Dam: Tonga (253 A.) by Honingham Archbishop (imp.) 9702 (48 A.A.).

Tonga's butter fat yields for 6 successive lactation periods are as follow:—1916, 341 lb.; 1917, 398 lb.; 1918, 419 lb.; 1919, 479 lb.; 1920, 428 lb.; 1921, 562 lb.

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Dam's Record (1st milking) 7144 lb. milk.

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G. Sire's D.	Dam's	,,	10215	,,	... 7	,,	,,	9386 ,,
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BIT O' 'BACCA (Vol. 3)

Sire: Nicotine (69 A.A.) by Acton Dewstone (imp.) 9524 (4 A.A.).
Dam: Nictitana (311 B.) by Nicotine (69 A.A.).

Nictitana's butter fat records for 6 successive lactation periods are as follow:—1918, 450 lb.; 1919, 396 lb.; 1920, 393 lb.; 1921, 465 lb.; 1922, 524 lb.; 1923, 536 lb.

Inspection of the Herd is Invited.

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A Tractor that will replace 8 horses on the farm, work every day in the year, if necessary, and run on kerosene—at half the cost of horse feed, is truly an asset to any farmer. These accomplishments are only part of "Cletrac's" wonderful utility:—Pumping Water, Cleaning Tanks, Sawing and Hauling Wood, Grinding Feed and Grain are all jobs that yield to the "Iron Horse that Never Tires."

"Cletrac" lays its own Tracks!

There must always be a basic reason when one line is superior to all others! In "Cletrac's" case its tremendous advantages are largely due to its unique method of running on its own tracks. The principal of the War Tanks' self-laying tracks is embodied in the "Cletrac"—and perfected! This method reduces the ground pressure to 4½ lb. per sq. inch, and in a special test it was definitely proved that **"Cletrac" has a lighter ground pressure per sq. inch than a man!** Every farmer will realize what that means at fallowing time.

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